

															
															
															
															
															

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.00
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.50	2.51	2.52	2.53	2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.67	2.68	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77	2.78	2.79	2.80	2.81	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99	3.00
3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	3.10	3.11	3.12	3.13	3.14	3.15	3.16	3.17	3.18	3.19	3.20	3.21	3.22	3.23	3.24	3.25	3.26	3.27	3.28	3.29	3.30	3.31	3.32	3.33	3.34	3.35	3.36	3.37	3.38	3.39	3.40	3.41	3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.61	3.62	3.63	3.64	3.65	3.66	3.67	3.68	3.69	3.70	3.71	3.72	3.73	3.74	3.75	3.76	3.77	3.78	3.79	3.80	3.81	3.82	3.83	3.84	3.85	3.86	3.87	3.88	3.89	3.90	3.91	3.92	3.93	3.94	3.95	3.96	3.97	3.98	3.99	4.00
4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10	4.11	4.12	4.13	4.14	4.15	4.16	4.17	4.18	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.31	4.32	4.33	4.34	4.35	4.36	4.37	4.38	4.39	4.40	4.41	4.42	4.43	4.44	4.45	4.46	4.47	4.48	4.49	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.57	4.58	4.59	4.60	4.61	4.62	4.63	4.64	4.65	4.66	4.67	4.68	4.69	4.70	4.71	4.72	4.73	4.74	4.75	4.76	4.77	4.78	4.79	4.80	4.81	4.82	4.83	4.84	4.85	4.86	4.87	4.88	4.89	4.90	4.91	4.92	4.93	4.94	4.95	4.96	4.97	4.98	4.99	5.00
5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	12.10	12.11	12.12	12.13	12.14	12.15	12.16	12.17	12.18	12.19	12.20	12.21	12.22	12.23	12.24	12.25	12.26	12.27	12.28	12.29	12.30	12.31	12.32	12.33	12.34	12.35	12.36	12.37	12.38	12.39	12.40	12.41	12.42	12.43	12.44	12.45	12.46	12.47	12.48	12.49	12.50	12.51	12.52	12.53	12.54	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78	12.79	12.80	12.81	12.82	12.83	12.84	12.85	12.86	12.87	12.88	12.89	12.90	12.91	12.92	12.93	12.94	12.95	12.96	12.97	12.98	12.99	13.00
13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	13.10	13.11	13.12	13.13	13.14	13.15	13.16	13.17	13.18	13.19	13.20	13.21	13.22	13.23	13.24	13.25	13.26	13.27	13.28	13.29	13.30	13.31	13.32	13.33	13.34	13.35	13.36	13.37	13.38	13.39	13.40	13.41	13.42	13.43	13.44	13.45	13.46	13.47	13.48	13.49	13.50	13.51	13.52	13.53	13.54	13.55	13.56	13.57	13.58	13.59	13.60	13.61	13.62	13.63	13.64	13.65	13.66	13.67	13.68	13.69	13.70	13.71	13.72	13.73	13.74	13.75	13.76	13.77	13.78	13.79	13.80	13.81	13.82	13.83	13.84	13.85	13.86	13.87	13.88	13.89	13.90	13.91	13.92	13.93	13.94	13.95	13.96	13.97	13.98	13.99	14.00
14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	14.10	14.11	14.12	14.13																																																																																							

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991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005
1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
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VAX 725/730
CUSTOMER RUNNABLE DIAG

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IDENTIFICATION

Product ID:	ZZ-ENSAB-1.5
Product Title:	CUSTOMER RUNNABLE DIAGNOSTICS (CRD)
Document Title:	CRD USER DOCUMENT
Maintainer:	BASE SYSTEMS DIAGNOSTIC ENGINEERING

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1 INTRODUCTION

This document is the main user document for the CUSTOMER RUNNABLE DIAGNOSTIC (CRD) Test Package and describes the USE and OPERATION of features associated with CRD. It is intended for the Field Service, or more experienced person familiar with elements associated with executing VAX Diagnostics such as the VAX Diagnostic Supervisor (VDS), the Microdiagnostic Monitor (MICMON), and related terms and expressions.

CRD supports two CPU systems in the Off-line (standalone) environment. They are the VAX-11/730 and the VAX-11/725.

CRD can operate in two modes: CRD AUTO Off-line and CRD MENU Off-line. CRD AUTO is an Auto test mode of CRD that verifies the operation of hardware for the VAX-11/730,725 base system including CPU, Memory, the VMS system disk, and the diagnostic load disk in the Off-line, or Standalone, environment. CRD MENU is a Menu-driven test mode of CRD which verifies operation of all subsystems including options for the VAX-11/730,725 in the Off-line environment. The Menu format provides a simple interface to select and test either one or all VAX subsystems.

1.1 Distribution Media

CRD Base System Type	CRD MACRO-DIAG MEDIA	CRD MICRO-DIAG MEDIA	CONSOLE TAPE MEDIA
VAX-11/730 RB730/DUAL RL02	RL02#1 Disk Cartridge (note 1,2)	TU58#36 Tape	TU58#34 Tape
VAX-11/730 RB730/R80/RL02			
VAX-11/730 RB730/TS05/RL02	MT#1 Magnetic Tape (note 6)		
VAX-11/730 UDA/RA-Disk	A) For System with UDA/RA60 Drive 0 or 1: RA60#1 Disk Cartridge (note 1,2) B) For System with no UDA/RA60 Drive 1 or Drive 0, but Tape subsystem: MT#1 Magnetic Tape (note 2,3,4)		
VAX-11/725 LESI/RC25	RC25#1 Disk Cartridge (note 1,5)		

NOTES:

- 1) The first seven(7) characters of the Pack Label are 'CRDPACK'.
- 2) Media is the VAX-11/730 Complete Diagnostic Set released from SDC. Directory is [SYSMAINT].
- 3) Before CRD is initiated at the customer site, the contents of the Magnetic Tape must be transferred to directory [SYSMAINT] or [SYS0.SYSMAINT] on a bootable RA81, RA80, or RA60 disk located on UDA Drive 0.
- 4) Tape Label is 'CRDMT'. Directory is [SYSMAINT].

- 5) Media is VAX-11/725 complete Diagnostic Set released from SDC. Directory is [SYSMAINT].
- 6) Tape Label is 'CRDMT'. Directory is [SYSMAINT].
Before CRD is initiated at the customer site, the contents of the Magnetic Tape must be transferred to directory [SYSMAINT] or [SYS0.SYSMAINT] on the RL02 disk of the TSU05.

1.2 Rules for Determining CRD Base System Type

The following Controllers can co-exist on the same VAX-11/730,725 system. Therefore, when CRD executes, it will use the following rules to determine the CRD Base System it is testing.

VAX-11/730,725 Controller Configuration	CONTROLLER			CRD BASE SYSTEM TYPE (note 1)
	IDC	LESI	UDA	
1	X			IDC
2		X		LESI
3			X	UDA
4	X	X		IDC (note 2)
5	X		X	IDC (note 2)
6	X	X	X	IDC (note 2)
7		X	X	LESI or UDA whichever is found at UNIBUS I/O Fixed CSR address 772150

NOTES:

- 1) IDC refers to either of the two VAX-11/730 RB730 Disk-based Systems.
 LESI refers to VAX-11/725 LESI/RC25 Disk-based System.
 UDA refers to a UDA/RA Disk-based System.
- 2) CRD considers this configuration an IDC Base System since it is assumed that the RB730 IDC will not be shipped as an option for CRD supported systems, and therefore, was originally shipped with the system.

1.3 Requirements

1.3.1 VAX-11/730 DUAL RL02 or RL02/R80 RB730 Disk-based Systems

1. System cabinet with:

- MS730
- CPU
- 1MB Memory
- one DMF32 Controller
- one RB730 Disk Controller
- RB730 Drive 1: RL02 Disk Drive
- RB730 Drive 0: RL02 Disk Drive and RL02 Disk Cartridge, or
- R80 fixed Winchester disk drive
- Dual TU58 Tape drives

2. LA120 Console Terminal

3. TU58#34 VAX-11/730 Console tape cartridge

4. TU58#36 VAX-11/730 Microdiagnostic tape cartridge

5. RL02#1 VAX-11/730 COMPLETE DIAGNOSTIC SET Disk Cartridge

1.3.2 VAX-11/730 TSU05 TS05/R80 RB730 Disk-based Systems

1. System cabinet with:

- MS730
- CPU
- 1MB Memory
- one RB730 Disk Controller
- RB730 Drive 0: RL02 Disk Drive and RL02 Disk Cartridge
- Dual TU58 Tape drives

2. VT52 Console Terminal

3. TU58#34 VAX-11/730 Console tape cartridge

4. TU58#36 VAX-11/730 Microdiagnostic tape cartridge

5. MT#1 VAX-11/730 COMPLETE DIAGNOSTIC SET Disk Cartridge

1.3.3 VAX-11/730 UDA/RA Disk-based System

1. System Cabinet with:

- MS730
- CPU
- 1MB Memory
- one UDA Disk Controller
- Dual TU58 Tape drives

2. LA120 Console Terminal

3. TU58#34 VAX 11/730 Console tape cartridge

4. TU58#36 VAX 11/730 Microdiagnostic tape cartridge

5.

For system with RA60 Drive 0 or 1:

RA60#1 VAX-11/730 COMPLETE DIAGNOSTIC SET Disk Cartridge

For system with no RA60 Drive 0 or 1 but Tape Subsystem:

MT#1 VAX-11/730 COMPLETE DIAGNOSTIC SET Tape

6. One of the following UDA Disk Drive configurations:
 - A. RA60 Drive 1 and either RA60, 80, or 81 Drive 0
 - B. RA60, 80 or 81 Drive 0

1.3.4 VAX-11/725 LESI/RC25 Disk-based System

1. System Cabinet with:
 - MS730
 - CPU
 - 1MB Memory
 - one LESI Disk Controller and RC25 Disk drive
 - Dual TU58 Tape drives
2. VT100 or LA120 Console Terminal
3. TU58#34 VAX-11/725 Console tape cartridge
4. TU58#36 VAX-11/725 Microdiagnostic tape cartridge
5. RC25#1 VAX-11/725 COMPLETE Diagnostic Set Disk Cartridge

2 CRD AUTO OFF-LINE

The AUTO Test mode of CRD verifies the operation of the CPU, the VMS system disk, and the diagnostic load disk for VAX-11/730,725. It's invoked ONLY FROM VAX-11/730,725 CONSOLE by typing T to the Conso e prompt. Successful completion initiates CRD MENU Off ine.

2.1 Support

Base System	CRD AUTO Hardware Test Support (Standalone) (note 4)		
VAX-11/730 DUAL RL02	CPU	- KA730	
	FPA	- FP730	(note 7)
	MEMORY	- MS730	
	IDC	- RB730	
	COMBO	- DMF32	(note 3,7)
	Macro-Diagnostic Load Device	- IDC/RL02	(note 1)
		DQA1 Drive 1	
	System Disk	- IDC/RL02	
		DQA0 Drive 0	
VAX-11/730 TSU05 Disk	CPU	- KA730	
	FPA	- FP730	(note 7)
	MEMORY	- MS730	
	IDC	- RB730	
	COMBO	- DMF32	(note 3,7)
	Macro-Diagnostic Load Device	- IDC/TS05	
	System Device	- IDC/RL02	
		DQA1 Drive 0	
VAX-11/730 R80/RL02	CPU	- KA730	
	FPA	- FP730	(note 7)
	MEMORY	- MS730	
	IDC	- RB730	
	COMBO	- DMF32	(note 3,7)
	Macro-Diagnostic Load Device	- IDC/RL02	(note 1)
		DQA1 Drive 1	
	System Disk	- IDC/R80	
		DQA0 Drive 0	
VAX-11/725 LESI/RC25	CPU	- KA730	
	FPA	- FP730	(note 7)
	MEMORY	- MS730	
	Macro-Diagnostic Load Device	- LESI/RC25	(note 1,5)
		DAA0 Drive 0 (removable)	
	System Disk	LESI/RCF25	

		DAA1 Drive 1 (fixed)

VAX-11/730	CPU	- KA730
UDA/RA Disk	FPA	- FP730 (note 7)
based System	MEMORY	- MS730
	COMBO	- DMF32 (note 3,7)
	Macro-Diagnostic Load	
	Device	- UDA/RA60 DJA1 Drive 1
		(note 2,6)
		Default:
		UDA/RA80,81,60 Drive 0
	System Disk	- UDA/RA81,80,60 Drive 0

NOTES:

- 1) CRD will verify that the first seven(7) characters of the pack label are 'CRDPACK'.
- 2) If Drive 1 is an RA60 then Drive 1 will be used as load device; otherwise, Drive 0 will be used only if Drive 0 is either an RA81, RA80, or RA60 (Drive 1 RA60 takes precedence over Drive 0 RA60.)

If the load device is an RA60 then CRD will verify that the first seven(7) characters of the pack label are 'CRDPACK'.

In the default case, if Drive 0 is either an RA80 or RA81 then it is expected that all required CRD software is located on directory [SYSMAINT] or [SYS0.SYSMAINT] (note that in the default case the load device and system disk are the same).
- 3) Configured as lowest ranked in UNIBUS I/O Floating CSR Address space allocated for DMF32.
- 4) Unless otherwise specified, CRD AUTO will expect to find (available) and explicitly test the hardware specified for each VAX-11/730,725 Base System. Hardware not found (unavailable) will be considered a 'Fail' and 'incomplete' test condition.
- 5) LESI controller is configured at UNIBUS I/O Fixed address 772150.
- 6) UDA controller is configured at UNIBUS I/O Fixed address 772150.
- 7) Considered optional. If found (available), hardware is tested. If not found (unavailable), CRD specifies the hardware as 'unavailable', does not indicate a

'Fail' condition, and considers the testing 'complete'.

- 8) DMF32S and DMF32P ports considered optional. If found (available), hardware is tested. If not found (unavailable), CRD specifies the hardware as 'unavailable', does not indicate a 'Fail' condition, and considers the testing 'complete'. The DMF32A port is expected to be available. A 'Fail' and 'incomplete' test condition will result if unavailable.
- 9) Considered optional. If found (available), hardware is tested. If not found (unavailable), CRD continues.

2.2 Initiation Procedure

CRD AUTO Test provides automated testing of a VAX-11/730,725 packaged system. It does not test any additional devices beyond the base machine. To invoke the VAX-11/730,725 CRD AUTO Test, follow these steps:

1. CPU powered on with front panel 'key switch' to 'LOCAL' position and 'auto restart' switch to 'OFF' position. Insert TU58#34 VAX-11/730,725 Console tape cartridge in Drive 1. Insert TU58#36 VAX-11/730,725 Microdiagnostic tape cartridge in Drive 0

NOTE

Machine control must be in the hands of the Console program. This is indicated by the '>>>' prompt at the console terminal. If the machine is powered off, then simply turn the keyswitch to the 'LOCAL' position. The machine will echo 'CONV _ _', then begin to load off the TU58#34 tape. The AUTO RESTART switch should be in the 'OFF' position, so that the machine halts once all microcode has been loaded. If the machine is running an operating system, use the recommended shutdown procedure to get back to the '>>>' Console prompt.

2.

For VAX-11/730 DUAL RL02 or R80/RL02 Disk-based system:
Insert RL02#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RL02 Drive 1. Make ready Drive 1 and Drive 0. Disks must be spinning with 'Write Protect' switch out (unlighted).

WARNING

EVRAD performs non-destructive disk testing by writing to the FE cylinder of an R80 drive, or writing to a duplicate copy of the 18 bit mode bad sector file which is not referenced by VAX/VMS for an RL02 drive. In the case of RL02 packs, the testing may be destructive if the pack is being used on an operating system other than VAX/VMS. If VAX/VMS is not the operating system being used on the machine, and the system drive is an RL02, then be sure to write-protect the drive or insert a scratch pack.

For VAX-11/730 TSU05 TS05/RL02 Disk-based system:
Contents of MT#1 BASIC DIAGNOSTIC SET must reside on Drive 0 account [SYSMAINT] or [SYS0.SYSMAINT]. Make ready Drive 0. Disks must be spinning with 'Write Protect' switch out (unlighted).

WARNING

TSU05 is a configuration which CRD cannot presently

distinguish from another configuration without manual operator intervention. The message which CRD Auto prints to properly determine the configuration is

```
**IF DRIVE 1 IS A TS05 THEN IGNORE ERROR MESSAGE **  
** AND TYPE 2<CR> TO CONTINUE IF DRIVE 1 IS A **  
** RL02 TYPE 1 <CR> TO CONTINUE TESTING **
```

Despite this message, the TS05 tape drive is tested only upon operator request in the CRD Menu section.

For VAX-11/730 UDA/RA Disk-based system:

- o If RA60 Drive 1:
Insert RA60#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RA60 Drive 1. Make ready Drive 0 and 1. Disks must be spinning with 'Write Protect' switch out (unlighted).
- o No RA60 Drive 1:
If Drive 0 RA60, insert RA60#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RA60 Drive 0.
Otherwise, contents of RA60#1 BASIC DIAGNOSTIC SET must reside on Drive 0 account [SYSMAINT] or [SYS0.SYSMAINT]. Make ready Drive 0.

For VAX-11/725 LESI/RC25 Disk-based system:

Insert removable disk in drive. Push in 'RUN' switch. Push out Write Protect 'REMOVE' and 'FIXED' switch (unlighted). Wait for 'RUN' light to stop blinking.

WARNING

For release 15 only, CRD Auto will refer to the LESI/RC25 as a DUUA0. This is the (release 16) generic device name DAA0 needs further support.

3. 'T' Command

Type T to the Console prompt and press RETURN
Wait for CRD AUTO to start (30 seconds), and successfully complete (Approximately 15 minutes)

2.3 Program Flow - 'T' Console Command

CRD AUTO Test has the unique ability of executing the console program, the micro diagnostic monitor, a standalone level 4 diagnostic program, and the macro Diagnostic Supervisor, all in one continuous flow without operator intervention.

CRD begins with the machine under the control of the console program. The first action it takes in AUTO Test is to pass control to the CRD micro monitor. To do this, the console program, upon receiving a 'T' command from the terminal, searches the TUS8 drives for the CRD micro monitor, ENKAB. When the file is located, it is loaded into WCS RAM, beginning at location 4C00. Unfortunately, parts of the console program and functional microcode also reside at these memory locations. This becomes very significant to CRD later, when control must be passed back to the console.

With the micro monitor loaded, the console program can simply execute a jump instruction to the starting address at 4C00(H) within the micro monitor. Control has been successfully passed, and all appropriate micro diagnostics can then be run.

Once the final micro has finished, given that no errors have occurred, CRD is ready to continue AUTO mode testing at the macro level. Control must be passed back to the console before testing resumes. The micro monitor can issue a jump back to the established console program address at 414D(H), and the code that was overwritten by MICMON must be reloaded into RAM. This is unfortunate from the point of view that reloading is a very time-consuming process, and it is being performed in an environment where time is very precious.

Once all the code has been reloaded, the console program will execute a command procedure CRABOO.CMD that will load and run the level 4 diagnostic, ENKAZ, then boot the Diagnostic Supervisor in CRD AUTO mode. The CRABOO.CMD command procedure will load both ENKAZ and VMB into main memory, then start ENKAZ. Following ENKAZ's Macro-Hardcore Instruction tests, it sizes the base disk drive configuration in order to perform a series of deposits to the general purpose registers which will tell VMB what the load device which the Supervisor is to run in AUTO mode on. The last instruction in ENKAZ is a jump to the starting address of the previously loaded VMB.

When machine control is in the hands of VMB while booting the Supervisor, CRD will lose the ability to display friendly error messages. VMB will not be changed to accommodate CRD, so standard error messages will be displayed if it fails during Supervisor boot. Therefore, the effort of CRD must be to minimize the possibility that VMB finds errors. This is why the IDC micro-diagnostic ENKCG and ENKAZ for the UDA must probe the diagnostic pack in search of the proper CRD pack label prior to booting the Supervisor.

Once the Diagnostic Supervisor is booted in CRD AUTO mode, it loads in its CRD control program, ENSAB. It then runs the Autosizer, EVSBA, to generate the proper ATTACH sequences for all devices in the packaged system. CRD AUTO Test then resumes testing at the macro diagnostic level.

Upon successful completion of AUTO Test macro diagnostics CRD will enter MENU mode. After the user has finished all menu testing, they will be able to exit back to the console program. For the first release of CRD, the only option available to the user was to exit since MENU testing had not been implemented at that time. This was accomplished by issuing a HALT instruction. Halting the main processor transfers machine control to the 8085-based console program.

2.4 Diagnostic Testing

2.4.1 VAX-11/730 DUAL RL02 or RL02/R80 RB730 Disk-based systems

CRD AUTO mode testing prints test titles for each hardware that it tests. Listed below are the test title names, as the customer sees them for a RB730 Disk-based system, and corresponding diagnostic tests executed.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
CPU PART 1	ENKBA	1-4, 6-8	WCS RAM data test omitted.
	ENKBB	9-D, F	LS RAM data test omitted.
	ENKBC	ALL	
	ENKBD	ALL	
	ENKBE	ALL	
	ENKCA	ALL	
	ENKCB	ALL	
MEMORY	ENKCC	1-32	Moving inversions and UBE tests omitted.
CPU PART 2	ENKCD	ALL	
FPA	ENKCE	ALL	
	ENKCH	ALL	IDC Sizing Test, verifies if IDC is present. If it is not present micro-testing continues with ENKCF and ENKCG not run.
RB730	ENKCF	ALL	
RL02 PART 1	ENKCG	ALL	Only 2 tests available at this time. ENKCG is the IDC PART II Microdiagnostic. Its main purpose is to test the drivers and receivers of the IDC board which can only be tested with the drives attached. When run under CRD, ENKCG checks the Disk pack label of the RL02 pack verifying that the first seven characters are 'CRDPACK'.
CPU PART 3	ENKAZ	DEFAULT 1-5,6	1. Load VMB and ENKAZ. 2. Perform ENKAZ MACRO-HARDWARE INSTRUCTION TESTS. 3. Identify CRD Macro-diagnostic disk drive load path. 4. Load parameters into, then execute VMB which loads DIAGBOOT. 5. Execute DIAGBOOT which loads the Diagnostic Supervisor (VDS). 6. VDS loads and initiates CRD loadable image.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
			7. CRD types 'PASSED' to console indicating successful initiation of CRD Macro test.
	EVSBA	DEFAULT	Execute the Autosizer. Identify CRD base system type and system hardware. No test title is printed for this, neither is 'PASSED' or 'FAILED' printed upon completion.
R80 or RL02	EVRAD	DEFAULT	Quick flag set.
RL02 PART 2	EVRAD	DEFAULT	Quick flag set.
DMF32S	EVDLB	DEFAULT	Internal loopback.
DMF32A	EVDLC	DEFAULT	Internal loopback, Quick flag set.
DMF32P	EVDLD	DEFAULT	Internal loopback.

2.4.2 VAX-11/730 TSU05 TS05/R80 RB730 Disk-based systems

CRD AUTO mode testing prints test titles for each hardware that it tests. Listed below are the test title names, as the customer sees them for a RB730 Disk-based system, and corresponding diagnostic tests executed.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
CPU PART 1	ENKBA	1-4, 6-8	WCS RAM data test omitted.
	ENKBB	9-D, F	LS RAM data test omitted.
	ENKBC	ALL	
	ENKBD	ALL	
	ENKBE	ALL	
	ENKCA	ALL	
	ENKCB	ALL	
MEMORY	ENKCC	1-32	Moving inversions and UBE tests omitted.
CPU PART 2	ENKCD	ALL	
FPA	ENKCE	ALL	
	ENKCH	ALL	IDC Sizing Test, verifies if IDC is present. If it is not present micro-testing continues with ENKCF and ENKCG not run.
RB730	ENKCF	ALL	
RL02 PART 1	ENKCG	ALL	Only 2 tests available at this time. ENKCG is the IDC PART II Microdiagnostic. Its main purpose is to test the drivers and receivers of the IDC board which can only be tested with the drives attached. When run under CRD, ENKCG checks the Disk pack label of the RL02 pack verifying that the first seven characters are 'CRDPACK'.
CPU PART 3	ENKAZ	DEFAULT 1-5,6	1. Load VMB and ENKAZ. 2. Perform ENKAZ MACRO-HARDWARE INSTRUCTION TESTS. 3. Identify CRD Macro-diagnostic disk drive load path. 4. Load parameters into, then execute VMB which loads DIAGBOOT. 5. Execute DIAGBOOT which loads the Diagnostic Supervisor (VDS). 6. VDS loads and initiates CRD loadable image.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
			7. CRD types 'PASSED' to console indicating successful initiation of CRD Macro test.
	EVSBA	DEFAULT	Execute the Autosizer. Identify CRD base system type and system hardware. No test title is printed for this, neither is 'PASSED' or 'FAILED' printed upon completion.
RL02 PART 2	EVRAD	DEFAULT	Quick flag set.
DMF32S	EVDLB	DEFAULT	Internal loopback.
DMF32A	EVDLC	DEFAULT	Internal loopback, Quick flag set.
DMF32P	EVDLD	DEFAULT	Internal loopback.

2.4.3 VAX-11/730 UDA/RA Disk-based systems

CRD AUTO mode testing prints test titles for each hardware that it tests. Listed below are the test title names, as the customer sees them for a UDA/RA Disk-based system, and corresponding diagnostic tests executed.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
CPU PART 1	ENKBA	1-4, 6-8	WCS RAM data test omitted. LS RAM data test omitted.
	ENKBB	9-D, F	
	ENKBC	ALL	
	ENKBD	ALL	
	ENKBE	ALL	
	ENKCA	ALL	
	ENKCB	ALL	
MEMORY	ENKCC	1-32	Moving inversions and UBE tests omitted.
CPU PART 2	ENKCD	ALL	
FPA	ENKCE	ALL	IDC Sizing Test, verifies if IDC is present. If it is not present micro-testing continues to CPU PART 3 testing.
	ENKCH	ALL	
CPU PART 3	ENKAZ	DEFAULT 1 5,6,7	1. Load VMB and ENKAZ. 2. Perform ENKAZ MACRO-HARDWARE INSTRUCTION TESTS. 3. Identify CRD Macro-diagnostic disk drive load path. Verify that pack is spinning. Print 'PASSED' if no errors.
RA60 PART 1 RA80 PART 1 RA81 PART 1	ENKAZ	8	1. If Macro-diagnostic disk pack is RA60, then verify RA60 pack label 'CRDPACK'. Test 8 ENKAZ. 2. Load parameters into, then execute VMB which loads DIAGBOOT. 3. Execute DIAGBOOT which loads the Diagnostic Supervisor (VDS). 4. VDS loads and initiates CRD loadable image. 5. CRD types 'PASSED' to console indicating successful initiation of CRD Macro test.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
	EVSBA	DEFAULT	Execute the Autosizer. Identify CRD base system type and system hardware. No test title is printed here, neither is 'PASSED' or 'FAILED' printed.
RA81 RA80 RA60	EVRLA	1,2	Quick flag set. Section 'CRD12'
RA81 PART 2 RA80 PART 2 RA60 PART 2	EVRLA	1,2	Quick flag set. Section 'CRD12'
DMF32S	EVDLB	DEFAULT	Internal loopback.
DMF32A	EVDLC	DEFAULT	Internal loopback, Quick flag set.
DMF32P	EVDLD	DEFAULT	Internal loopback.

2.4.4 VAX-11/725 LESI/RC25 Disk-based systems

CRD AUTO mode testing prints test titles for each hardware that it tests. Listed below are the test title names, as the customer sees them for a LESI/RC25 Disk-based system, and corresponding diagnostic tests executed.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
CPU PART 1	ENKBA	1-4, 6-8	WCS RAM data test omitted. LS RAM data test omitted.
	ENKBB	9-D, F	
	ENKBC	ALL	
	ENKBD	ALL	
	ENKBE	ALL	
	ENKCA	ALL	
	ENKCB	ALL	
MEMORY	ENKCC	1-32	Moving inversions and UBE tests omitted.
CPU PART 2	ENKCD	ALL	
FPA	ENKCE	ALL	IDC Sizing Test, verifies if IDC is present. If it is not present micro-testing continues with ENKCF and ENKCG not run.
	ENKCH	ALL	
CPU PART 3	ENKAZ	DEFAULT 1-5,6	1. Load VMB and ENKAZ. 2. Perform ENKAZ MACRO-HARDCORE INSTRUCTION TESTS. 3. Identify CRD Macro-diagnostic disk drive load path. Print 'PASSED' if no error.
RC25 PART 1	ENKAZ	8	1. Verify Pack Label 'CRDPACK'. 2. Load parameters into, then execute VMB which loads DIAGBOOT. 3. Execute DIAGBOOT which loads the Diagnostic Supervisor (VDS). 4. VDS loads and initiates CRD loadable image. 5. CRD types 'PASSED' to console indicating successful initiation of CRD Macro test.
	EVSBA	DEFAULT	Execute the Autosizer. Identify CRD base system type and system hardware. No test title is printed for this, neither is 'PASSED' or 'FAILED' printed upon completion.
RC25 PART 2	EVRMB		Quick flag set.

TESTING	DIAGNOSTIC	TESTS	COMMENTS
RCF25	EVRMB		Quick flag set.

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2.5 Sample Printouts

The following pages detail what may be displayed on the console terminal as CRD AUTO Test progresses.

NOTE

The format and content of these printouts will change as CRD evolves.

The run times listed with each test are rounded to the nearest appropriate 15 second interval. They should be used as a guide to indicate the approximate end of the testing. Memory testing is based on the standard 1 Megabyte of memory. Each additional Megabyte of memory will add about 20 seconds to the program's run time. If testing continues well beyond the expected run time, it should be assumed that CRD encountered an unrecoverable error. Recheck the setup requirements listed above, and call Digital Field Service if the problem remains.

2.5.1 Printouts for VAX-11/730 UDA/RA Disk-based Systems

2.5.1.1 Printout for a UDA kernel system.

The following is an output of a successful CRD AUTO Test run for a UDA kernel system. CRD will automatically size the system and execute diagnostics accordingly.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
RA60 PART 1	DJA1 TESTING STARTED - RUN TIME = 0:30	PASSED
RA80	DUA0 TESTING STARTED - RUN TIME = 2:45	PASSED
RA60 PART 2	DJA1 TESTING STARTED - RUN TIME = 1:00	PASSED
DMF32S	XGA0 TESTING STARTED - RUN TIME = 1:00	PASSED
DMF32A	TXA0-TXA7 TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P	LCA0 TESTING STARTED - RUN TIME = 0:15	PASSED

AUTO TEST COMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

2.5.2 Printouts for VAX-11/725 LESI/RC25 Disk-based Systems

2.5.2.1 Printout for a LESI/RC25 Disk-based system.

The following is an output of a successful CRD AUTO Test run for a LESI/RC25 Disk-based system. CRD will automatically size the system and execute diagnostics accordingly.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
RC25 PART 1	DAA0 TESTING STARTED - RUN TIME = 0:30	PASSED
RC25 PART 2	DAA0 TESTING STARTED - RUN TIME = 1:00	PASSED
RCF25	DAA1 TESTING STARTED - RUN TIME = 1:00	PASSED

AUTO TEST COMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

2.5.3 Printouts for VAX-11/730 RL02/R80 RB730 Disk-based Systems

2.5.3.1 Printout for system without the FPA option

The following is an output of a successful CRD AUTO Test run for a system without the FPA option. CRD will automatically size the system for this option, and execute the diagnostic accordingly.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA FPA NOT AVAILABLE	TESTING STARTED - RUN TIME = 1:45	
RB730	TESTING STARTED - RUN TIME = 0:45	PASSED
RL02 PART 1 DQA1	TESTING STARTED - RUN TIME = 0:15	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
R80	DQA0 TESTING STARTED - RUN TIME = 0:30	PASSED
RL02 PART 2 DQA1	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32S	XGA0 TESTING STARTED - RUN TIME = 1:00	PASSED
DMF32A TXA0-TXA7	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P	LCA0 TESTING STARTED - RUN TIME = 0:15	PASSED

AUTO TEST COMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

Situations can arise that prevent complete CRD testing. Probably the most common of these special cases is when a given device in the Packaged System cannot be found by the diagnostics. For example, if a disk drive is powered off or disconnected, it will not be seen. Or, if the switchpacks on the DMF32 (COMBO) board are not set for the proper UNIBUS address, it may not be found. A similar situation arises if any of the DMF32 ports are disabled via the switchpack on the distribution panel. In all of these cases, a message will notify the user that the device is unavailable. If possible, CRD will resume testing of the next device. CRD cannot continue without the presence of all three CPU boards. It also requires the presence of the RB730 in order to perform disk and DMF32 testing.

2.5.3.2 Printout for system where DMF32P and DMF32A are disabled

The following is a printout where both the synchronous and parallel ports of the DMF32 board have been disabled:

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
RB730	TESTING STARTED - RUN TIME = 0:45	PASSED
RL02 PART 1 DQA1	TESTING STARTED - RUN TIME = 0:15	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
R80 DQA0	TESTING STARTED - RUN TIME = 0:30	PASSED
RL02 PART 2 DQA1	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32S XGA0	TESTING STARTED - RUN TIME = 1:00	
DEVICE NOT AVAILABLE		
DMF32A TXA0-TXA7	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P LCA0	TESTING STARTED - RUN TIME = 0:15	
DEVICE NOT AVAILABLE		

AUTO TEST COMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX 11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

For CRD AUTO Test to run properly, the correct setup described earlier must be performed. The three required media are the microcode and diagnostic TU58 tapes, and the diagnostic RL02 pack.

If the system microcode tape does not support CRD, then the 'T' command issued to begin testing will first cause files to be loaded from the TU58 tapes and will then result in a 'MIC>' prompt displayed at the console terminal. If this should happen, a 'RETURN' command given to the 'MIC>' prompt will reload the Console program.

If the TU58 tape inserted in drive 0 does not contain the CRD AUTO Test control program, the following message will be printed, and control will remain in the Console program:

2.5.3.3 Printout for system where TU58 in drive 0 does not contain
CRD AUTO Test

>>> T

?40 CRD TU-58 NOT FOUND

>>>

2.5.3.4 Printout for system where TUS8 in drive 0 has missing or corrupt files

If the diagnostic tape in TUS8 drive 0 has files missing or corrupted, CRD cannot continue and testing is aborted. The following is a printout of a CRD AUTO Test run where a problem with the diagnostic TUS8 tape arises:

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1 TESTING STARTED - RUN TIME = 3:30 PASSED

MEMORY TESTING STARTED - RUN TIME = 1:30 PASSED

CPU PART 2 TESTING STARTED - RUN TIME = 0:45 PASSED

** PROPER SETUP REQUIRED - CANNOT CONTINUE **
** CHECK DIAGNOSTIC TAPE INSERTED IN TUS8 DRIVE 0 **
** IF SETUP CORRECT, POSSIBLE TAPE OR DRIVE PROBLEM **

AUTO TEST ABORTED

**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX 11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

The correct RL02 disk pack must be up and spinning in drive DQA1: for CRD to execute properly. To insure this, a quick test is made to verify that DQA1: contains the RL02 pack labeled 'CRDPACK'. If this is not the case, a message is displayed asking the user to set up the drive. Once this has been completed, the user types a carriage return to restart testing. This is the only possibility of manual intervention during CRD AUTO Test.

2.5.3.5 Printout for system where user forgot to spin up RL02 pack

The following is a printout of a successful CRD AUTO Test run,
where the user has forgotten to spin up the diagnostic RL02 pack:

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1 TESTING STARTED - RUN TIME = 3:30 PASSED

MEMORY TESTING STARTED - RUN TIME = 1:30 PASSED

CPU PART 2 TESTING STARTED - RUN TIME = 0:45 PASSED

FPA TESTING STARTED - RUN TIME = 1:45 PASSED

RB730 TESTING STARTED - RUN TIME = 0:45 PASSED

RL02 PART 1 DQA1 TESTING STARTED - RUN TIME = 0:15

** PROPER SETUP REQUIRED - TYPE <CR> TO CONTINUE **
** CHECK FOR RL02 DIAGNOSTIC PACK 'CRDPACK' **
** INSERTED AND SPINNING IN DRIVE DQA1: **
** IF SETUP CORRECT, POSSIBLE RL02 DRIVE PROBLEM **

CPU PART 3 TESTING STARTED - RUN TIME = 4:00 PASSED

R80 DQA0 TESTING STARTED - RUN TIME = 0:30 PASSED

RL02 PART 2 DQA1 TESTING STARTED - RUN TIME = 0:30 PASSED

DMF32S XGA0 TESTING STARTED - RUN TIME = 1:00 PASSED

DMF32A TXA0-TXA7 TESTING STARTED - RUN TIME = 0:30 PASSED

DMF32P LCA0 TESTING STARTED - RUN TIME = 0:15 PASSED

AUTO TEST COMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

Two examples of incomplete disk drive testing are when the drives are write-protected or not spun up. If either of the cases are found under CRD, messages will be displayed on the console terminal, and testing will resume with the next device.

2.5.3.6 Printout for system where system pack has been write-protected

The following is a printout of a successful CRD AUTO Test run, but where the system pack, DQA0:, has been write-protected.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
RB730	TESTING STARTED - RUN TIME = 0:45	PASSED
RL02 PART 1	DQA1 TESTING STARTED - RUN TIME = 0:15	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
R80	DQA0 TESTING STARTED - RUN TIME = 0:30	
** UNIT IS WRITE-PROTECTED **		
** DQA0: DISK DRIVE TESTING INCOMPLETE **		
RL02 PART 2	DQA1 TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32S	XGA0 TESTING STARTED - RUN TIME = 1:00	PASSED
DMF32A	TXA0-TXA7 TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P	LCA0 TESTING STARTED - RUN TIME = 0:15	PASSED

AUTO TEST INCOMPLETE - NO ERRORS
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

2.5.3.7 Printout for system where system pack is not spun up

The following is an output of a successful CRD AUTO Test run
where the system disk, DQA0:, is not spun up.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
RB730	TESTING STARTED - RUN TIME = 0:45	PASSED
RL02 PART 1	DQA1 TESTING STARTED - RUN TIME = 0:15	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
R80	DQA0 TESTING STARTED - RUN TIME = 0:30	
** DRIVE NOT ONLINE - CHECK DRIVE SPUN UP **		
** DQA0: DISK DRIVE TESTING INCOMPLETE **		
RL02 PART 2	DQA1 TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32S	XGA0 TESTING STARTED - RUN TIME = 1:00	PASSED
DMF32A	TXA0-TXA7 TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P	LCA0 TESTING STARTED - RUN TIME = 0:15	PASSED

AUTO TEST INCOMPLETE -
CHECK DEVICE PREPARATION - IF OK, THEN CALL FIELD SERVICE
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

Any hard error found by the diagnostics while running CRD AUTO Test will cause an immediate failure message to be displayed. Errors will always cause testing of the device to be aborted. However, in some cases CRD AUTO Test will abort, and in others it will resume testing of the next device. When CRD testing must be aborted (in the case of CPU, Memory, FPA, and RB730 errors), the user will be offered the choice of returning back to the Console program or restarting AUTO Test. When testing can continue (in the case of

disk or DMF32 errors), CRD AUTO will run to completion and return to the Console program. Note that CRD MENU is not invoked when CRD AUTO detects a hard error.

The following are printouts of CRD AUTO Test runs with errors found in various diagnostics.

2.5.3.8 Printout for system where error in RB730 testing

The next printout is displayed when an error is encountered during the execution of RB730 testing. Testing cannot continue from this error. Note that in this example the user typed a 1 in response to the ENTER 1 TO RETURN TO CONSOLE, 2 TO RESTART AUTO TEST prompt.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA	TESTING STARTED - RUN TIME = 1:45	PASSED
RB730	TESTING STARTED - RUN TIME = 0:45	*FAILED*

AUTO TEST ABORTED - RB730 BAD - CALL FIELD SERVICE

ENTER 1 TO RETURN TO CONSOLE, 2 TO RESTART AUTO TEST 1
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

2.5.3.9 Printout for system where error in DMF32 testing

The following printout is displayed when an error is encountered during DMF32 synchronous port testing. Testing resumes with DMF32 asynchronous port testing.

>>> T

**** BEGIN VAX-11/730,725 AUTO TEST ****
VERSION 1.5 RUN TIME APPROXIMATELY 15:00 MINUTES

CPU PART 1	TESTING STARTED - RUN TIME = 3:30	PASSED
MEMORY	TESTING STARTED - RUN TIME = 1:30	PASSED
CPU PART 2	TESTING STARTED - RUN TIME = 0:45	PASSED
FPA FPA NOT AVAILABLE	TESTING STARTED - RUN TIME = 1:45	
RB730	TESTING STARTED - RUN TIME = 0:45	PASSED
RL02 PART 1 DQA1	TESTING STARTED - RUN TIME = 0:15	PASSED
CPU PART 3	TESTING STARTED - RUN TIME = 4:00	PASSED
R80	DQA0 TESTING STARTED - RUN TIME = 0:30	PASSED
RL02 PART 2 DQA1	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32S	XGA0 TESTING STARTED - RUN TIME = 1:00	*FAILED*
DMF32A TXA0-TXA7	TESTING STARTED - RUN TIME = 0:30	PASSED
DMF32P	LCA0 TESTING STARTED - RUN TIME = 0:15	PASSED

AUTO TEST COMPLETE - XGA0 BAD - CALL FIELD SERVICE
**** END OF VAX-11/730,725 AUTO TEST ****

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

(... You are now in menu mode, see MENU sample printouts ...)

3 CRD MENU OFF-LINE

The Menu-driven test mode of CRD verifies the operation of all subsystems including options for VAX-11/730,725. The Menu format provides a simple interface to select and test either one or all VAX subsystems. It is invoked by any one of the following three methods:

- o typing T/M" to VAX-11/730,725 Console prompt,
- o typing CRD to VAX Diagnostic Supervisor prompt, or
- o typing T to VAX-11/730,725 Console prompt (T invokes CRD AUTO which then invokes CRD MENU).

NOTE

CRD MENU is not supported for use in Diagnostic Supervisor command files. The results of having a 'CRD' command in a Supervisor command file are unpredictable.

3.1 Support - Hardware/Diagnostic

The following hardware is explicitly tested in CRD MENU Off-line by the VAX Diagnostic files specified:

HARDWARE	DIAGNOSTIC FILES REQUIRED
-----	-----
KA730 CPU	ENKAX, EVKAB, EVKAC, EVKAD, EVKAE
RB730/RL02,R80	EVRAD, EVQDQ (driver)
RK711	EVREA, EVREB, EVREC, EVRED, EVREE
RK711/RK07	EVRAD, EVQDM (driver)
RL211/RL02	EVRAD, EVQDL (driver)
UDA/RA80,81,60	EVRLA, EVRLA.DAT (Data File)
DMF32S	EVDLB
DMF32A	EVDLC
DMF32P	EVDLD
DR11W	EVDRE
DUP11	EVDUP
DZ32	EVDAB
TS11	EVMAD, EVQTS (driver)
TU80	EVMBE
TS05	EVMAI
RC25	EVRMB
VS100	EVWAB
DEUNA	EVDWA

3.2 Initiation Procedure

There are three ways to invoke CRD MENU Off-line:

- o by T/M Console Command,
- o by CRD VAX Diagnostic Supervisor command,
- o by T Console command (T invokes CRD AUTO which then invokes CRD MENU)

Note that the times quoted below are approximations, and depend on the size of the system, which version of CRD is running, and various other factors.

1. CPU powered on with front panel 'key switch' to 'LOCAL' position and 'auto restart' switch to 'OFF' position
2. Insert TUS8#34 VAX-11/730,725 Console tape cartridge in Drive 1
3. Insert TUS8#36 VAX-11/730,725 Microdiagnostic tape cartridge in Drive 0
- 4.

For VAX-11/730 DUAL RL02 or R80/RL02 Disk-based system:
Insert RL02#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RL02 Drive 1. Make ready Drive 1 and Drive 0.

For VAX-11/730 TS05 TS05/RL02 Disk-based system:

Contents of MT#1 BASIC DIAGNOSTIC SET must reside on Drive 0 account [SYSMAINT] or [SYS0.SYSMAINT]. Make ready Drive 0.

For VAX-11/730 UDA/RA Disk-based system:

- o If RA60 Drive 1:
Insert RA60#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RA60 Drive 1. Make ready Drive 0 and 1.
- o No RA60 Drive 1:
If Drive 0 RA60, insert RA60#1 VAX-11/730,725 BASIC DIAGNOSTIC SET Disk Cartridge into RA60 Drive 0.
Otherwise, contents of RA60#1 BASIC DIAGNOSTIC SET must reside on Drive 0 account [SYSMAINT] or [SYS0.SYSMAINT]. Make ready Drive 0.

For VAX-11/725 LESI/RC25 Disk-based system:

Insert removable disk in drive. Push in 'RUN' switch. Push out Write Protect 'REMOVE' and 'FIXED' switch (unlighted). Wait for 'RUN' light to stop blinking.

5.

'T' Command

- Type T to the Console prompt and press RETURN
- Wait for CRD AUTOTEST to start (30 seconds), and successfully complete (Approximately 15 minutes)
- Wait for CRD MENU to print Main Menu.

'T/M' Command

- Type T/M to the Console prompt and press RETURN
- Wait for CRD Off-Line Main Menu to be printed (response time 1:30 minutes).

'CRD' Command

- Boot Diagnostic Supervisor by typing to the console 'B SQ1' for IDC based system, or 'B SUX' if UDA based system or 'B SA0' if LESI based system. Press RETURN.
- Wait for Supervisor prompt (1:45 minutes). Type CRD and press RETURN
Wait for CRD Off-line Main Menu to be printed.

3.3 Diagnostic Testing

A hardware test title is printed each time CRD MENU starts testing a hardware device selected for test. For each hardware test title the following shows both the VAX Diagnostic Supervisor commands used by CRD MENU to start testing and a description of testing being performed:

KA730 PART 1 KAO

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load ENKAX
 - Set Flags Quick
 - Select KAO
 - Start
- o Testing:
 - KA730 specific CPU cluster exercising

KA730 PART 2 KAO

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVKAB
 - Set Flags Quick
 - Select KAO
 - Start
- o Testing:
 - Basic CPU Instruction Exercising

KA730 PART 3 KAO

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVKAC
 - Set Flags Quick
 - Select KAO
 - Start
- o Testing:
 - Floating Point Testing

KA730 PART 4 KA0

- o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVKAD
Set Flags Quick
Select KA0
Start
- o Testing:
CPU Compatibility Mode Testing

KA730 PART 5 KA0

- o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVKAE
Set Flags Quick
Select KA0
Start
- o Testing:
CPU Privileged Architecture testing

RK711 PART 1 'Generic Device Name'

- o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVREA
Set Flags Quick
Select 'Generic Device Name'
Start

RK711 PART 2 'Generic Device Name'

- o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVREB
Set Flags Quick
Select 'Generic Device Name'
Start

KA
KA
KA
KA
KA
KA
DM
DM
DM
RL
R8
RL
..
..
..

RK711 PART 3 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVREC
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start

RK711 PART 4 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVRED
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start

RK711 PART 5 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVREE
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start

DMF32S COMBO 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVDLB
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start
- o Testing:
 - Internal wrap testing: EIA drivers, receivers or distribution pane not tested

DMF32A COMBO 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVDLC
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start
- o Testing:
 - Internal Wrap testing

DMF32P COMBO 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVDLD
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start
- o Testing:
 - If printer is attached then Registers and LP logic tested;
otherwise only Registers tested

RL02 DISK 'Generic Device Name'

R80 DISK 'Generic Device Name'

RK07 DISK 'Generic Device Name'

- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVRAD
 - Set Flags Quick
 - Select 'Generic device name'
 - Start
- o Testing:
 - Functional reads and writes; non-destructive testing. Disks with
useable data may be used.

RA80 DISK 'Generic Device Name'
RA81 DISK 'Generic Device Name'
RA60 DISK 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVRLA
Set Flags Quick
Select 'Generic device name'
Start/Section:CRD12

o Testing:
Tests 1 and 2.

RCF25 DISK 'Generic Device Name'
RC25 DISK 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVRMB
Set Flags Quick
Select 'Generic device name'
Start/Section:CRD

TS11 TAPE 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVMAD
Set Flags Quick
Select 'Generic Device Name'
Start

TS05 TAPE 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVMAI
Set Flags Quick
Select 'Generic Device Name'
Start/Section:CRD

TU80 TAPE 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVMBE
Set Flags Quick
Select 'Generic Device Name'
Start/Section:CRD

DR11W REALTIME 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVDRE
Set Flags Quick
Select 'Generic Device Name'
Start

o Testing:
Internal wrap testing

DUP11 COMM. 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVDUP
Set Flags Quick
Select 'Generic Device Name'
Start

o Testing:
Internal wrap testing

DZ32 COMM. 'Generic Device Name'

o VDS Commands:
Clear Flags All
Clear Event Flags All
Load EVDAB
Set Flags Quick
Select 'Generic Device Name'
Start

o Testing:
Internal wrap testing

DUP11 COMM. 'Generic Device Name'

-
- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVDUP
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start
- o Testing:
 - Internal wrap testing

VS100 COMM. 'Generic Device Name'

-
- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVWAB
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start

DEUNA COMM. 'Generic Device Name'

-
- o VDS Commands:
 - Clear Flags All
 - Clear Event Flags All
 - Load EVDWA
 - Set Flags Quick
 - Select 'Generic Device Name'
 - Start

3.4 Sample Printouts

The following printouts show various stages of CRD MENU Test. All of these assume CRD MENU was invoked from the T/M console command or from a successful completion of CRD AUTO Test.

NOTE

The format and content of these printouts will change as CRD evolves. The times given in the following printouts are approximations only.

3.4.1 MAIN MENU (Functional Test) Printout

The following is printed as a result of invoking VAX-11/730,725
CRD MENU Test.

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

Type the CTRL key and the C key (together) at
any time to interrupt Menu Test Processing

VAX-11/730,725 HARDWARE IDENTIFICATION - RUN TIME = 00:30 Minutes
PLEASE WAIT . . .

VAX-11/730,725 HARDWARE IDENTIFICATION COMPLETE

----- MAIN MENU - Functional Test -----

- A = Exit Menu Test
- B = Print list of identified system hardware and support status
- C = Print preparation required for test of supported hardware
- D = Select and Test hardware from TEST MENU
- E = TEST ALL Supported Hardware

Type one of the above (e.g. A), and press RETURN,

Enter MAIN MENU choice:

3.4.1.1 Exit Menu Test Printout

The following is printed as a result of choosing Exit Menu Test from the Main Menu.

(from Main Menu)

:

Type one of the above (e.g. A), and press RETURN.

Enter MAIN MENU choice: A

MENU TEST STOPPED BY OPERATOR
**** END OF VAX-11/730,725 MENU TEST ****

RETURNING TO VAX-11/730,725 CONSOLE, WAIT FOR >>> PROMPT

?02 PC=00000000
>>>

3.4.1.2 Print System Hardware Printout

The following is printed as a result of choosing Print list of identified system hardware . . . from the Main Menu.

(from Main Menu)

Type one of the above (e.g. A), and press RETURN

Enter MAIN MENU choice: B

Hardware Name	Generic Name	Test Menu Support
console	CSA0	No Support
DW730	DW0	No Support
RB730	DQA	No Support
RL02	DQA1	SUPPORTED
KA730	KA0	SUPPORTED
RK711	DMA	SUPPORTED
RK07	DMA0	SUPPORTED
RL11	DLA	No Support
RL02	DLA0	SUPPORTED
R80	DQA0	SUPPORTED
DMF32S	XGA0	SUPPORTED
DMF32A	TXA	SUPPORTED
DMF32P	LCA	SUPPORTED

(return to Main Menu)

3.4.1.3 Print Hardware Preparation Printout

The following is printed as a result of choosing Print hardware preparation . . . from the Main Menu.

(from Main Menu)

.

Type one of the above (e.g. A), and press RETURN,

Enter MAIN MENU choice: C

Hardware: DMF32A, DMF32P, DMF32S, KA730, RK711
Preparation: 1. No Hardware Preparation required.

Hardware: RL02, RK07
Preparation: 1. Insert disk cartridge in drive. Disk may contain useable data.
2. Push In LOAD switch.
3. Push out WRITE PROT switch (not lighted).
4. Wait for READY indicator to light.

Hardware: R80
Preparation: 1. Push in RUN STOP switch.
2. Push out WRITE PROT switch (not lighted).
3. Wait for READY indicator to light.

.

(return to Main Menu)

3.4.2 TEST MENU Printout

The following is the menu to select either one or all supported hardware for testing. This menu is entered as a result of choosing Select and test one or all supported hardware from the Main Menu.

(from Main Menu)

Type one of the above (e.g. A), and press RETURN,

Enter MAIN MENU choice: D

----- TEST MENU -----

A1 =	KA730	CPU	KA0
B1 =	DMF32S	COMM.	XGA0
B2 =	DMF32A	COMM.	TXA
B3 =	DMF32P	COMM.	LCA
C1 =	RL02	DISK	DLA0
C2 =	R80	DISK	DQA0
C3 =	RL02	DISK	DQA1

D1 = TEST ALL of the above supported hardware

Type one of the above (e.g. A1), and press RETURN to start testing.

Enter TEST MENU choice:

3.4.2.1 TEST ALL - No Errors Printout

The following is a printout of a successful CRD MENU Functional test run, as a result of choosing TEST ALL from the Test Menu.

(from Main Menu)

Type one of the above (e.g. A1), and press RETURN to start testing.

Enter TEST MENU choice: D1

Type the CTRL key and the C key (together)
at any time to interrupt Functional Test...

***** BEGIN FUNCTIONAL TESTING *****

RUN TIME = 15:00 MINUTES

KA730	PART 1	KA0	TESTING STARTED - RUN TIME = 00:45 MINUTES	PASSED
KA730	PART 2	KA0	TESTING STARTED - RUN TIME = 02:00 MINUTES	PASSED
KA730	PART 3	KA0	TESTING STARTED - RUN TIME = 02:45 MINUTES	PASSED
KA730	PART 4	KA0	TESTING STARTED - RUN TIME = 02:00 MINUTES	PASSED
KA730	PART 5	KA0	TESTING STARTED - RUN TIME = 03:00 MINUTES	PASSED
DMF32S	COMM.	XGA0	TESTING STARTED - RUN TIME = 01:00 MINUTES	PASSED
DMF32A	COMM.	TXA	TESTING STARTED - RUN TIME = 00:30 MINUTES	PASSED
DMF32P	COMM.	LCA	TESTING STARTED - RUN TIME = 00:30 MINUTES	PASSED
RL02	DISK	DLA0	TESTING STARTED - RUN TIME = 00:45 MINUTES	PASSED
R80	DISK	DQA0	TESTING STARTED - RUN TIME = 01:00 MINUTES	PASSED
RL02	DISK	DQA1	TESTING STARTED - RUN TIME = 00:45 MINUTES	PASSED

FUNCTIONAL TESTING COMPLETE - NO ERRORS

(return to Main Menu)

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3.4.2.2 TEST ALL - With Errors Printout

The following is a printout of a CRD MENU Functional Test run with failed devices detected, as a result of choosing TEST ALL from the Test Menu.

(from Test Menu)

Enter TEST MENU choice: D1

Type the CTRL key and the C key (together)
at any time to interrupt Functional Test...

***** BEGIN FUNCTIONAL TESTING *****

RUN TIME = 15:00 MINUTES

KA730	PART 1	KA0	TESTING STARTED - RUN TIME = 00:45 MINUTES	PASSED
KA730	PART 2	KA0	TESTING STARTED - RUN TIME = 02:00 MINUTES	PASSED
KA730	PART 3	KA0	TESTING STARTED - RUN TIME = 02:45 MINUTES	PASSED
KA730	PART 4	KA0	TESTING STARTED - RUN TIME = 02:00 MINUTES	PASSED
KA730	PART 5	KA0	TESTING STARTED - RUN TIME = 03:00 MINUTES	PASSED
DMF32S	COMM.	XGA0	TESTING STARTED - RUN TIME = 01:00 MINUTES	*FAILED*
DMF32A	COMM.	TXA	TESTING STARTED - RUN TIME = 00:30 MINUTES	PASSED
DMF32P	COMM.	LCA	TESTING STARTED - RUN TIME = 00:30 MINUTES	PASSED
RL02	DISK	DLA0	TESTING STARTED - RUN TIME = 00:45 MINUTES	*FAILED*
R80	DISK	DQA0	TESTING STARTED - RUN TIME = 01:00 MINUTES	PASSED
RL02	DISK	DQA1	TESTING STARTED - RUN TIME = 00:45 MINUTES	PASSED

** FUNCTIONAL TESTING INCOMPLETE - ERRORS
** FAILED HARDWARE TESTING: XGA0, DLA0
** CALL FIELD SERVICE **

(return to Main Menu)

3.4.3 CONTROL-C MENU Printout

This is the Menu printout as a result of typing the CTRL key
and the C key at the same time.

(CTRL key and C key typed together)

.
.
.

CONTROL-C MENU

A = Exit Menu Test

B = Abort the current process, and return to MAIN MENU

C = Resume the process interrupted by the CONTROL-C

Type one of the above (e.g. A), and press RETURN.

Enter CONTROL-C MENU choice:

3.4.4 FATAL ERROR Printouts

The following two printouts show what is printed when CRD MENU detects an unrecoverable error. The first printout shows what is printed when CRD MENU detects an internal software error.

.
:
.

THIS VERSION OF CRD MENU TEST IS CORRUPTED

MENU TEST ABORTED - CALL FIELD SERVICE
**** END OF VAX-11/730,725 MENU TEST ****

RETURNING TO VAX-11/730,725 CONSOLE, WAIT FOR >>> PROMPT

?02 PC=00000000
>>>

This printout shows what is printed when CRD MENU detects an error while the system is being sized (i.e., while the Autosizer is determining what devices are on the system).

CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE

VERSION 1.5

**** BEGIN VAX-11/730,725 MENU TEST ****

Type the CTRL key and the C key (together) at
any time to interrupt Menu Test Processing

VAX-11/730,725 HARDWARE IDENTIFICATION - RUN TIME = 00:30 Minutes
PLEASE WAIT . . .

UNABLE TO DETERMINE DEVICES ON THE SYSTEM - NO FURTHER TESTING POSSIBLE

MENU TEST ABORTED - CALL FIELD SERVICE
**** END OF VAX 11/730,725 MENU TEST ****

RETURNING TO VAX-11/730,725 CONSOLE, WAIT FOR >>> PROMPT

?02 PC=00000000
>>>

4 CRD ERROR DIAGNOSIS

As CRD progresses, informational messages are printed. In addition, when errors occur, CRD will always attempt to give more information concerning the condition causing the error by typing a qualifying message. However, since CRD is intended for an inexperienced operator, the level of explanation and course of action content of the message is limited. Nevertheless, there are various methods that are available to the more experienced operator to gain more information.

4.1 CRD Error Message Printout

This is applicable to both CRD AUTO and CRD MENU for informational and error messages. The operator may be able to gain more information about a condition specified by a CRD message by referring to the section in this document titled MESSAGE INDEX.

4.2 CRD Tracing Mode

This is applicable to CRD MENU only, and in particular, for errors that occur during testing of hardware devices selected for test. Since testing may fail with little or no indication as to the cause, there is a Tracing mode build into CRD MENU that can be invoked by the operator to gain more information about the error.

This Tracing mode is invoked from VAX Diagnostic Supervisor command mode (DS> prompt). When CRD is run in the Tracing mode, specific diagnostic information is printed along with the normal CRD printouts. Diagnostic information specified includes:

- o VAX Diagnostic Supervisor commands used for executing the hardware unit's Diagnostic
- o The actual Diagnostic error message text.

To execute CRD in this mode, type the following to the VAX Diagnostic Supervisor command level prompt (type what is underlined):

```
DS> SET CRD/TRACE  
DS> CRD
```

This mode is automatically disabled when CRD is exited, or explicitly disabled by typing the following to the VAX Diagnostic Supervisor Command level prompt:

```
DS> CLEAR CRD/TRACE
```

The VAX Diagnostic Supervisor Command level can be reached by booting to the VAX Diagnostic Supervisor from the Console level (>>> prompt at terminal). See the procedure called CRD Diagnostic Supervisor Command Invocation under the section in this document titled Initiation Procedure for CRD Off-line MENU.

5 REVISION HISTORY

5.1 September 1982 Release

Submit for Release July 1982.
Initial release of CRD AUTO Offline:
Version 1.0 CRD AUTO Offline Microtest.
Version 1.0 CRD AUTO Offline Macrotest.

5.2 January 1983 Release

Submit for Release November 1982.
CRD MENU Offline Support:
Version 1.1 CRD AUTO Offline Microtest.
Version 1.1 CRD AUTO/MENU Offline Macrotest.

5.3 September 1983 Release

Submit for Release May 1983.
CRD AUTO/MENU support of UDA/RA Disk-based systems. CRD MENU Offline support for UDA/RA80,81, and 60, DZ32, DUP11, and TU80.
Version 1.2 CRD AUTO Offline Microtest.
Version 1.2 CRD AUTO/MENU Offline Macrotest.

5.4 November 1983 Release

Submit for Release July 1983.
CRD AUTO/MENU support of LESI/AZTEC Disk-based systems. AUTO/MENU support of VT100 console with summaries and pauses.
Version 1.3 CRD AUTO Offline Microtest.
Version 1.3 CRD AUTO/MENU Offline Macrotest.

5.5 March 1984 Release

Submit for Release November 1983.
CRD MENU support of TSU05. EVRMB LESI/AZTEC diagnostic does read/write testing. Documentation: SV-xxxx-xx package ordernumbers were deleted.
Version 1.4 CRD AUTO Offline Microtest.
Version 1.4 CRD AUTO/MENU Offline Macrotest.

5.6 June 1984 Release

Submit for Release October 1984.
Added VS100 and DEUNA support, removed VS125 support

6 MESSAGE INDEX

Listed below are the possible messages that may be printed during a CRD test run. Each message is listed alphabetically by the first letter in the message text. Refer to Sections titled SAMPLE PRINTOUTS for either CRD AUTO or CRD MENU, for examples of these messages in the overall context of CRD.

MESSAGES	CAUSE	SOLUTION/COMMENTS
----------	-------	-------------------

AUTO TEST ABORTED

This message will appear as a trailing message when CRD finds an error that it cannot continue from. It may be either a Micro Diagnostic error or a Diagnostic Supervisor error.

Locate the error message that caused this message to be printed. Follow the appropriate action as described in this section.

AUTO TEST COMPLETE - ERRORS

This message will appear as a trailing message when CRD has finished testing. It indicates that all diagnostic tests for all devices selected for test have been executed, and that one or more devices have encountered errors.

Determine cause of error by locating error text in the test run printouts (procedures for further diagnosis may be found in the section called CRD Error Diagnosis found in this document). If the cause can be readily corrected, then restart CRD.

AUTO TEST COMPLETE - NO ERRORS

This message will appear as a trailing message when CRD has finished testing. It indicates that all Diagnostic tests for all devices selected for test have been executed, and that all tests have executed successfully with no errors.

Successfully completed.

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MESSAGES	CAUSE	SOLUTION/COMMENTS
----------	-------	-------------------

AUTO TEST INCOMPLETE -

This message will appear as a trailing message when CRD has finished testing. It indicates that one or more diagnostic tests for a selected device have not been executed.

Determine cause of message by locating text in the test run printouts (procedures for further diagnosis may be found in the section called CRD Error Diagnosis found in this document). If the cause can be readily corrected, then restart CRD.

AUTO TEST INCOMPLETE - ERRORS

This message will appear as a trailing message when CRD has finished testing. It indicates that one or more diagnostic tests have encountered errors.

Determine cause of message by locating text in the test run printouts (procedures for further diagnosis may be found in the section called CRD Error Diagnosis found in this document). If the cause can be readily corrected, then restart CRD.

BAD

This message is used in the event of a diagnostic error to call out the failing device.

The device(s) that are named here have failed diagnostic testing. The bad modules may be swapped out of the machine, or further testing of the device may be performed in a non-CRD environment.

xBOOT-F-Message Text

This is the format of an error encountered by VMB. They indicate that an error occurred while attempting to load DIAGBOOT.EXE, the VAX Diagnostic Supervisor boot file.

The text of this message should give an indication of what the problem is. Likely causes of this error may be that DIAGBOOT was not copied contiguously onto the disk pack, or that the UNIBUS is not continuous or properly terminated. Run the EVKAA.EXE diagnostic if the problem cannot be identified from the message text.

MESSAGES

CAUSE

SOLUTION/COMMENTS

DEVICE NOT AVAILABLE

The Autosizer did not find the device corresponding to this message. The given port on the DMF32 (COMBO) board has been disabled via the switchpack on the distribution panel.

Be sure the device is inserted in the system.

Be sure the device is receiving power.

Be sure all cables, etc. to the device are properly installed.

Be sure any switchpacks on the device are set for the proper address and vector.

If a DMF32 port has intentionally been disabled, this is the proper message to appear. Otherwise, re-enable the port via the switchpack.

DRIVE BAD

This is a generic UDA50 error report given in ENKAZ to indicate the device can be identified, but the drive could not be placed on-line successfully. The identification was accomplished previously by the 'RA60, RA80, RA81 PART 1 DJAx, DUA0 TESTING STARTED' printout.

This possibly could be a controller, cabling or the specific drive which was identified previously in the 'TESTING STARTED' printout.

MESSAGES

CAUSE

SOLUTION/COMMENTS

```
** DRIVE NOT ONLINE - CHECK DRIVE SPUN UP **
** DQAx: DISK DRIVE TESTING INCOMPLETE **
```

```

EVRAD finds an IDC disk
drive not ready for testing.
This should only occur for
system disk testing. This
message will only be
displayed for Drive DQA1: if
the drive is spun down
following ENKCG testing.

```

Be sure the disk drive is up and spinning.

Be sure the drive is powered on.

Be sure the drive is properly connected to the IDC.

Be sure all retaining screws have been removed from the disk and heads.

The disk drive itself may be broken.

ENTER 1 TO RETURN TO CONSOLE, 2 TO RESTART AUTO TEST

CRD has found an error or a CONTROL C has been typed while the Micro Diagnostics are being run. CRD cannot continue.

Type 1 to exit CRD and return to the >>> prompt.

Type '2' to restart testing at the beginning.

Type 3 to see the standard Micro Diagnostic error report. If a CONTROL-C has been typed, the information displayed will indicate the test being executed when the CONTROL-C was typed.

?? ERROR IN STARTING CRD - INCORRECT BITS SET

An error occurred while attempting to start either CRD MENU Test or CRD AUTO Test.

This message indicates that the flag bits passed to the Diagnostic Supervisor in general register 5 were set incorrectly for CRD. The bits were set for both CRD AUTO Test and CRD MENU Test. This should only happen if the user is setting these bits manually. In this case, make sure the bits are set correctly, and restart CRD. If this happens in any of the recommended ways of starting CRD, contact Digital Field Service.

[illegible]

MESSAGES	CAUSE	SOLUTION/COMMENTS
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?? Error in starting the VAX-11/730,725 CRD MENU TEST!

An error occurred in the initialization of CRD MENU Test.	Use the SET CRD/TRACE command and restart CRD. This may help determine the cause of the error. If not, call Digital Field Service.
---	--

ERROR WHILE ATTEMPTING TO EXIT CRD AUTO TEST

The software detected an error while trying to exit CRD.	This should never happen. Notify Digital Field Service if this error appears.
--	---

ERROR WHILE ATTEMPTING TO EXIT CRD MENU TEST

The software detected an error while trying to exit CRD.	This should never happen. Notify Digital Field Service if this error appears.
--	---

ERROR WHILE ATTEMPTING TO LOAD THE LOADABLE PORTION OF CRD AUTO TEST

A problem occurred in either finding the ENSAB.EXE file on the load device, or allocating storage in memory for the control program, or in loading the file into memory.	Check to make sure the file is accessible and is not corrupted. Run the ENKCC Micro to verify that all of memory can be seen.
--	--

ERROR WHILE ATTEMPTING TO LOAD THE LOADABLE PORTION OF CRD MENU TEST

A problem occurred in either finding the ENSAB.EXE file on the load device, or allocating storage in memory for the control program, or in loading the file into memory.	Check to make sure the file is accessible and is not corrupted. Run the ENKCC Micro to verify that all of memory can be seen.
--	--

MESSAGES	CAUSE	SOLUTION/COMMENTS
----------	-------	-------------------

FAILED

Diagnostic testing for the device specified was not completed successfully.

Determine the cause by noting any qualifying messages in the CRD printout (procedures for further diagnosis may be found in the section called CRD Error Diagnosis found in this document). If the cause can be readily corrected, then restart CRD.

** FAILED TO ALLOCATE MEMORY

The ENSAB.EXE CRD control program encountered an error while attempting to allocate memory for its data.

Run the ENKCC Micro to verify that all of memory can be seen. If this fails to show any errors, contact Digital Field Service.

FPA NOT AVAILABLE

The FPA Micro Diagnostic (ENKCE) finds that no FPA is present in the system.

The FPA is an optional device. This is the correct message for a system with no FPA.

If there is an FPA in the system, then it is broken to the point that it is not seen by the machine.

** IF DRIVE 1 IS A TS05 THEN IGNORE ERROR MESSAGE **
** AND TYPE 2<CR> TO CONTINUE IF DRIVE 1 IS A **
** RL02 TYPE 1 <CR> TO CONTINUE TESTING **

CRD Auto cannot distinguish between a TS05 system and a RB730 RL02/R80 system whose RL02 is incapable of responding to even an identity check.

Type 1<CR> if the device is a TS05 and type 2<CR> if it is a RL02.

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\$O

\$P

CO

DA

MESSAGES	CAUSE	SOLUTION/COMMENTS
INCORRECT VERSION OF CRD AUTO TEST	This version of CRD AUTO Test loadable image is not compatible with the version of the Diagnostic Supervisor being used.	Receive the latest released VAX Diagnostic Supervisor and CRD files (ENSAB).
INCORRECT VERSION OF CRD MENU TEST	This version of CRD MENU Test loadable image is not compatible with the version of the Diagnostic Supervisor being used.	Receive the latest released VAX Diagnostic Supervisor and CRD files (ENSAB).
NO SUPPORTED CONTROLLER FOUND	This failure indicates ENKAZ could not find an IDC or UDA50 at its base address, or there was an error in the startup initialization routine of the UDA50 controller not allowing identification of the controller.	Check that the controller is configured correctly, i.e. at the correct base CSR. Other possible problems are the controller is bad, the Unibus, or other configuration problems.
NO SUPPORTED DISK CONTROLLER FOUND BY CRD MACRO TEST	The VAX Diagnostic Supervisor is running in CRD AUTO mode and has completed executing EVSBA Autosizer. CRD has checked the results of EVSBA and has found that no CRD supported disk controller was identified (see section called INTRODUCTION - Determining Base System Types and CRD AUTO OFF LINE - Support this document for supported disk controllers).	Check that hardware is configured correctly conforming to DEC Unibus I/O Address space conventions.

MESSAGES	CAUSE	SOLUTION/COMMENTS
PASSED		
	All diagnostic tests for the given device have executed successfully.	CRD begins testing the next device.
** PROPER SETUP REQUIRED - CANNOT CONTINUE **		
** CHECK DIAGNOSTIC TAPE INSERTED IN TU58 DRIVE 0 **		
** IF SETUP CORRECT, POSSIBLE TAPE OR DRIVE PROBLEM **		
	CRD MICMON has encountered a TU58 error.	Check that the TU58 tape contains all the required Micro Diagnostics. The TU58 tape is bad.
** PROPER SETUP REQUIRED - TYPE <CR> TO CONTINUE **		
** CHECK FOR RL02 DIAGNOSTIC PACK 'CRDPACK' **		
** INSERTED AND SPINNING IN DRIVE DQA1: **		
** IF SETUP CORRECT, POSSIBLE RL02 DRIVE PROBLEM **		
	The ENKCG Microdiagnostic finds Drive DQA1: not ready or contains wrong disk pack.	Be sure drive contains the RL02 disk pack labelled 'CRDPACK'. Be sure the drive is up and spinning. Be sure the drive is powered on. Be sure the drive is properly connected to the IDC. Be sure all retaining screws have been removed the the drive and heads. The disk drive itself may be broken.

MESSAGES	CAUSE	SOLUTION/COMMENTS
<pre>** PROPER SETUP REQUIRED ** ** CHECK THAT DUA0: IS SPINNING ** ** THEN TYPE <CR> TO CONTINUE **</pre>	The ENKAZ level 4 diagnostic finds Drive DUA0: either RA80 or RA81 not spinning.	Be sure the drive is spun-up if this cannot be done there may be a drive problem.
<pre>** PROPER SETUP REQUIRED ** ** CHECK FOR DIAGNOSTIC PACK 'CRDPACK' ** ** INSERTED AND SPINNING IN DJAx ** ** THEN TYPE <CR> TO CONTINUE **</pre>	The ENKAZ level 4 diagnostic finds either Drive DJA0: or DJA1: RA60 not spinning or an incorrect pack via pack label.	Be sure the drive is spun-up and is the correct pack if the disk cannot be spun-up there may be a drive problem. If there is a question about the pack label if possible attempt to mount the pack under VMS. If the set-up is correct there may be a possible drive or controller problem.
<pre>** PROPER SETUP REQUIRED ** ** CHECK FOR DIAGNOSTIC PACK 'CRDPACK' ** ** INSERTED AND SPINNING IN DJAx ** ** IF SET-UP IS CORRECT, SUSPECT DRIVE ** ** PROBLEM - CALL FIELD SERVICE ** ** THEN TYPE <CR> TO CONTINUE **</pre>	The ENKAZ level 4 diagnostic finds either Drive DJA0: or DJA1: RA60 an incorrect pack via pack label and an invalid home block on the diagnostic pack.	Be sure the drive contains the correct pack. If there is a question about the pack label if possible attempt to mount the pack under VMS. If the set-up is correct there may be a possible drive or controller problem.

MESSAGES	CAUSE	SOLUTION/COMMENTS
THE ENLAA.SUP FILE COULD NOT BE FOUND! CRD MENU TEST CANNOT CONTINUE PROCESSING	The ENLAA.SUP support file could not be found on the load device.	Place a new, good version of ENLAA.SUP on the disk pack. Execute CRD MENU Test again. If the same message appears, contact Digital Field Service.
THE ENLAA.SUP FILE COULD NOT BE LOADED! CRD MENU TEST CANNOT CONTINUE PROCESSING	An error occurred while loading the ENLAA.SUP support file from the load device.	Place a new, good version of ENLAA.SUP on the disk pack. Execute CRD MENU Test again. If the same message appears, contact Digital Field Service.
THE LOADABLE PORTION OF CRD AUTO TEST IS CORRUPTED	Either the ENSAB.EXE image is corrupted, or an internal software error was detected.	Place a new, good version of ENSAB.EXE on the disk pack. Execute CRD AUTO Test again. If the same message appears, contact Digital Field Service.
THE LOADABLE PORTION OF CRD MENU TEST IS CORRUPTED	Either the ENSAB.EXE image is corrupted, or an internal software error was detected.	Place a new, good version of ENSAB.EXE on the disk pack. Execute CRD MENU Test again. If the same message appears, contact Digital Field Service.
RB730 NOT AVAILABLE	The IDC Micro Diagnostic (ENKCF) finds that no IDC (RB730) is present in the system.	The IDC is part of the packaged system being tested by CRD. It should be present unless it is broken to the point that it cannot be recognized. Customers who buy just the VAX-11/730,725 box product may not have an IDC present, and this is the normal message.

MESSAGES	CAUSE	SOLUTION/COMMENTS
The CRD Trace flag is off.	This is the output from the SHOW CRD Supervisor command. This is the default for the CRD Tracing mode.	No action is required.
The CRD Trace flag is on.	This is the output from the SHOW CRD Supervisor command. This means that the CRD Tracing mode has been enabled.	No action is required.
UNABLE TO DETERMINE DEVICES ON THE SYSTEM - NO FURTHER TESTING POSSIBLE		
The Autosizer (EVSBA.EXE) encountered an error while attempting to identify the system devices.	Be sure the file EVSBA.EXE is on the diagnostic disk pack. Run the Autosizer under the Diagnostic Supervisor to see the error message.	
UNABLE TO FIND THE LOADABLE PORTION OF CRD AUTO TEST		
The file ENSAB.EXE was not found on the disk in DQA1:.	Be sure the RL02 pack in drive DQA1: contains all of the necessary files.	
UNABLE TO FIND THE LOADABLE PORTION OF CRD MENU TEST		
The file ENSAB.EXE was not found on the disk in DQA1:.	Be sure the RL02 pack in drive DQA1: contains all of the necessary files.	

MESSAGES	CAUSE	SOLUTION/COMMENTS
UNABLE TO LOAD CONTROL PROGRAM FROM DQA1	This message is printed from DIAGBOOT.EXE, indicating that the Diagnostic Supervisor could not be loaded.	Be sure all files are present on the RL02 disk pack. Try to boot the Supervisor in normal mode to see the error message.
UNEXPECTED MACHINE CHECK WHILE VERIFYING LOAD PATH	This error is used in ENKAZ to indicate a machine check occurred in the sizing operation of the program.	Try to run the EVAAA, then boot the Supervisor and run the drive specific diagnostic. If this doesn't fail run the CPU Cluster diagnostics EVKAB - EVKAE.
** UNIT IS WRITE-PROTECTED ** ** DQAx: DISK DRIVE TESTING INCOMPLETE **	The EVRAD diagnostic finds that one of the IDC disk drives is write-protected. EVRAD will skip write testing of the device.	For complete disk testing write enable the drive by pressing the write protect button on the drive to the unlit position.
UNSUPPORTED DISK CONFIGURATION FOUND - DRIVE 0 AND 1	ENKAZ cannot find a supported drive configuration or the drive cannot be identified due to a failure when an on-line command was issued. See section 2.1 for a description of the supported configurations.	Check the drive for power and that it is configured correctly, also check the cabling from the controller to the drive.

MESSAGES	CAUSE	SOLUTION/COMMENTS
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***** WARNING *****		
* MEDIA on the following hardware MUST NOT CONTAIN VALUABLE DATA *		
* Hardware Name Generic Name *		
* ----- *		
* XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX *		

Press RETURN when the media is ready to be tested:

This warning message appears when the user has selected for testing certain devices. The message pertains only to those devices listed (the 'XXXXXXXXXXXX' above). This message indicates that the devices mentioned must not contain valuable data; that is, any data on the device may be deleted when testing starts.

Place media that does not contain any valuable data (i.e., scratch media) on the device. Type a 'RETURN' to the prompt. NOTE: a CONTROL-C functions the same as a 'RETURN' for this prompt; that is, if the user types a CONTROL-C, testing will start.

?? You cannot run VAX-11/730,725 CRD MENU TEST in user mode

The user tried to execute CRD MENU Test while VAX/VMS was running.

CRD MENU Test is not supported for running under VAX/VMS. See the section on Initiation Procedures .

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[End of ENSAB.DOC - CUSTOMER RUNNABLE DIAGNOSTICS]

! Object Module Synopsis !

Module Name	Ident	Bytes	File	Creation Date	Creator
CRDACT1	01-22	1256	[DS.CRD.V020]CRDACT1.OBJ;1	19-Sep-1985 16:31	VAX-11 Bliss-32 V4.1-746
CRDACT2	01-17	1981	[DS.CRD.V020]CRDACT2.OBJ;1	19-Sep-1985 16:32	VAX-11 Bliss-32 V4.1-746
CRDCTRLC	01-00	83	[DS.CRD.V020]CRDCTRLC.OBJ;1	19-Sep-1985 16:34	VAX-11 Bliss-32 V4.1-746
CRDDDB	01-11	6170	[DS.CRD.V020]CRDDDB.OBJ;1	19-Sep-1985 16:35	VAX-11 Bliss-32 V4.1-746
CRDGENCOM	01-02	516	[DS.CRD.V020]CRDGENCOM.OBJ;1	19-Sep-1985 16:49	VAX-11 Bliss-32 V4.1-746
CRDHDWSUP	01-05	5663	[DS.CRD.V020]CRDHDWSUP.OBJ;1	19-Sep-1985 16:50	VAX-11 Bliss-32 V4.1-746
CRDHSACT	01-01	1059	[DS.CRD.V020]CRDHSACT.OBJ;1	19-Sep-1985 16:52	VAX-11 Bliss-32 V4.1-746
CRDINIT	01-06	213	[DS.CRD.V020]CRDINIT.OBJ;1	19-Sep-1985 16:53	VAX-11 Bliss-32 V4.1-746
CRDINTRFC	07	1000	[DS.CRD.V020]CRDINTRFC.OBJ;1	19-Sep-1985 16:54	VAX-11 Bliss-32 V4.1-746
CRDTEXT	11	5581	[DS.CRD.V020]CRDTEXT.OBJ;1	19-Sep-1985 16:55	VAX-11 Bliss-32 V4.1-746
CRDMMACT	V01.4	2571	[DS.CRD.V020]CRDMMACT.OBJ;1	19-Sep-1985 16:56	VAX-11 Bliss-32 V4.1-746
CRDPTABLE	01-01	545	[DS.CRD.V020]CRDPTABLE.OBJ;1	19-Sep-1985 16:59	VAX-11 Bliss-32 V4.1-746
CRDSTATE	01-04	7860	[DS.CRD.V020]CRDSTATE.OBJ;1	19-Sep-1985 17:00	VAX-11 Bliss-32 V4.1-746
CRDSTOP	V01.20	2375	[DS.CRD.V020]CRDSTOP.OBJ;1	19-Sep-1985 17:06	VAX-11 Bliss-32 V4.1-746
CRDTQACT	01-00	479	[DS.CRD.V020]CRDTQACT.OBJ;1	19-Sep-1985 17:11	VAX-11 Bliss-32 V4.1-746
CRDTYPCOD	01-01	967	[DS.CRD.V020]CRDTYPCOD.OBJ;1	19-Sep-1985 17:11	VAX-11 Bliss-32 V4.1-746
CRDVECS	V1.09	104	[DS.CRD.V020]CRDVECS.OBJ;1	19-SEP-1985 17:14	VAX/VMS Macro V04-00
MENCNTLC	01-00	779	[DS.CRD.V020]MENCNTLC.OBJ;1	19-Sep-1985 17:14	VAX-11 Bliss-32 V4.1-746
MENGOA	NONE	2068	[DS.CRD.V020]MENGOA.OBJ;1	19-Sep-1985 17:15	VAX-11 Bliss-32 V4.1-746
MENPROMPT	V01.1	3093	[DS.CRD.V020]MENPROMPT.OBJ;1	19-Sep-1985 17:16	VAX-11 Bliss-32 V4.1-746
MENSTATE	V01.4	7949	[DS.CRD.V020]MENSTATE.OBJ;1	19-Sep-1985 17:20	VAX-11 Bliss-32 V4.1-746
MENTST	01-04	2027	[DS.CRD.V020]MENTST.OBJ;1	19-Sep-1985 17:21	VAX-11 Bliss-32 V4.1-746
MENTSTINI	V01.4	2834	[DS.CRD.V020]MENTSTINI.OBJ;1	19-Sep-1985 17:23	VAX-11 Bliss-32 V4.1-746
MENTSTQ	01 00	202	[DS.CRD.V020]MENTSTQ.OBJ;1	19-Sep-1985 17:24	VAX-11 Bliss-32 V4.1-746
MENTURING	V01.2	4192	[DS.CRD.V020]MENTURING.OBJ;1	19-Sep-1985 17:25	VAX-11 Bliss-32 V4.1-746
LIB\$SPAWN	1-005	366	SYS\$COMMON:[SYSLIB]STARLET.OLB;5	23-Jun-1985 01:51	VAX-11 Bliss-32 V4.0-742
LIB\$MSGDEF	2-018	0	SYS\$COMMON:[SYSLIB]STARLET.OLB;5	23-JUN-1985 00:54	VAX-11 Message V04-00
SYS\$P1_VECTOR	V04 000	0	SYS\$COMMON:[SYSLIB]STARLET.OLB;5	23-JUN-1985 01:59	VAX/VMS Macro V04-00
LIB\$ANALYZE_SDESC					
	1 003	101	SYS\$COMMON:[SYSLIB]STARLET.OLB;5	23-JUN-1985 00:57	VAX/VMS Macro V04-00
LIB\$MSGDEF	2 018	0	SYS\$COMMON:[SYSLIB]STARLET.OLB;5	23-JUN-1985 00:54	VAX-11 Message V04-00

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♦-----♦
! R  - Relocatable !
! P  - Protected   !
♦-----♦

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[illegible]

! Program Section Synopsis !

Psect Name	Module Name	Base	End	Length	Align	Attributes
\$BASE	CRDVECS	00000000	00000067	00000068 (	104.)	LONG 2 NOPIC,USR,CON,REL,LCL, SHR,NOEXE, RD, WRT,NOVEC
		00000000	00000067	00000068 (	104.)	LONG 2
\$CODE\$	MENGOA	00000068	0000046B	00000404 (	1028.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD,NOWRT,NOVEC
		00000068	0000046B	00000404 (	1028.)	LONG 2
\$OWNS\$	MENGOA	0000046C	000004DF	00000074 (	116.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
		0000046C	000004DF	00000074 (	116.)	LONG 2
\$PLITS\$	MENGOA	000004E0	0000087B	0000039C (	924.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD,NOWRT,NOVEC
		000004E0	0000087B	0000039C (	924.)	LONG 2
CODE		0000087C	00006E07	0000658C (	25996.)	LONG 2 PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	CRDACT1	0000087C	00000BF6	0000037B (	891.)	LONG 2
	CRDACT2	00000BF8	00001290	00000699 (	1689.)	LONG 2
	CRDCTRLC	00001294	000012DD	0000004A (	74.)	LONG 2
	CRDDDB	000012E0	00002052	00000D73 (	3443.)	LONG 2
	CRDGENCOM	00002054	000020DE	0000008B (	139.)	LONG 2
	CRDHDWSUP	000020E0	00002B07	00000A28 (	2600.)	LONG 2
	CRDHSACT	00002B08	00002EA4	0000039D (	925.)	LONG 2
	CRDINIT	00002EA8	00002F6C	000000C5 (	197.)	LONG 2
	CRDINTRFC	00002F70	0000319F	00000230 (	560.)	LONG 2
	CRDMMACT	000031A0	000037E7	00000648 (	1608.)	LONG 2
	CRDPTABLE	000037E8	00003936	0000014F (	335.)	LONG 2
	CRDSTATE	00003938	00003E19	000004E2 (	1250.)	LONG 2
	CRDSTOP	00003E1C	0000462D	00000812 (	2066.)	LONG 2
	CRDTQACT	00004630	00004760	00000131 (	305.)	LONG 2
	CRDTYPCOD	00004764	00004919	000001B6 (	438.)	LONG 2
	MENCNTLC	0000491C	00004BF8	000002DD (	733.)	LONG 2
	MENPROMPT	00004BFC	000056A3	00000AAB (	2728.)	LONG 2
	MENTST	000056A4	00005D11	0000066E (	1646.)	LONG 2
	MENTSTINI	00005D14	00006516	00000803 (	2051.)	LONG 2
	MENTSTQ	00006518	000065C1	000000AA (	170.)	LONG 2
	MENTURING	000065C4	00006E07	00000844 (	2116.)	LONG 2
DATA		00006E08	0000E65A	00007853 (	30803.)	LONG 2 NOPIC,USR,CON,REL,LCL, SHR,NOEXE, RD,NOWRT,NOVEC
	CRDACT1	00006E08	00006F74	0000016D (	365.)	LONG 2
	CRDACT2	00006F78	0000709B	00000124 (	292.)	LONG 2
	CRDCTRLC	0000709C	000070A4	00000009 (	9.)	LONG 2
	CRDDDB	000070A8	00007B46	00000A9F (	2719.)	LONG 2
	CRDGENCOM	00007B48	00007CBC	00000175 (	373.)	LONG 2
	CRDHDWSUP	00007CC0	0000856E	000008AF (	2223.)	LONG 2
	CRDHSACT	00008570	000085F5	00000086 (	134.)	LONG 2
	CRDINIT	000085F8	000085FF	00000008 (	8.)	LONG 2
	CRDINTRFC	00008600	00008687	00000088 (	136.)	LONG 2
	CRDTEXT	00008688	00009BD0	00001549 (	5449.)	LONG 2

Psect Name	Module Name	Base	End	Length	Align	Attributes
DATA		00006E08	0000E65A	00007853 (	30803.) LONG 2	NOPIC,USR,CON,REL,LCL, SHR,NOEXE, RD,NOWRT,NOVEC
	CRDMMACT	00009BD4	00009DA2	000001CF (	463.) LONG 2	
	CRDPTABLE	00009DA4	00009E69	000000C6 (	198.) LONG 2	
	CRDSTATE	00009E6C	0000B82D	000019C2 (	6594.) LONG 2	
	CRDSTOP	0000B830	0000B8FC	000000CD (	205.) LONG 2	
	CRDTQACT	0000B900	0000B9AD	000000AE (	174.) LONG 2	
	CRDTYPCOD	0000B9B0	0000BBC0	00000211 (	529.) LONG 2	
	MENCNTLC	0000BBC4	0000BBCE	0000000B (	11.) LONG 2	
	MENPROMPT	0000BBD0	0000BBD8	0000000C (	12.) LONG 2	
	MENSTATE	0000BBD8	0000DAC7	00001EEC (	7916.) LONG 2	
	MENTST	0000DAC8	0000DB44	0000007D (	125.) LONG 2	
	MENTSTINI	0000DB48	0000DE1E	000002D7 (	727.) LONG 2	
	MENTSTQ	0000DE20	0000DE3F	00000020 (	32.) LONG 2	
	MENTURING	0000DE40	0000E65A	0000081B (	2075.) LONG 2	
WORK		0000E65C	0000F0C8	00000A6D (	2669.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
	CRDDDB	0000E65C	0000E663	00000008 (	8.) LONG 2	
	CRDGENCOM	0000E664	0000E667	00000004 (	4.) LONG 2	
	CRDHDWSUP	0000E668	0000E9AF	00000348 (	840.) LONG 2	
	CRDINIT	0000E9B0	0000E9B7	00000008 (	8.) LONG 2	
	CRDINTRFC	0000E9B8	0000EAE7	00000130 (	304.) LONG 2	
	CRDTEXT	0000EAE8	0000EB6B	00000084 (	132.) LONG 2	
	CRDMMACT	0000EB6C	0000ED5F	000001F4 (	500.) LONG 2	
	CRDPTABLE	0000ED60	0000ED6B	0000000C (	12.) LONG 2	
	CRDSTATE	0000ED6C	0000ED7B	00000010 (	16.) LONG 2	
	CRDSTOP	0000ED7C	0000EDE3	00000068 (	104.) LONG 2	
	MENCNTLC	0000EDE4	0000EE06	00000023 (	35.) LONG 2	
	MENPROMPT	0000EE08	0000EF68	00000161 (	353.) LONG 2	
	MENSTATE	0000EF6C	0000EF8C	00000021 (	33.) LONG 2	
	MENTST	0000EF90	0000F08F	00000100 (	256.) LONG 2	
	MENTSTINI	0000F090	0000F0C7	00000038 (	56.) LONG 2	
	MENTURING	0000F0C8	0000F0C8	00000001 (	1.) LONG 2	
LIB\$CODE		0000F0CC	0000F2A0	000001D5 (	469.) LONG 2	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	LIB\$SPAWN	0000F0CC	0000F239	0000016E (	366.) LONG 2	
	LIB\$ANALYZE_SDESC	0000F23C	0000F2A0	00000065 (	101.) LONG 2	
_LIB\$DATA		0000F2A4	0000F2A4	00000000 (	0.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
	LIB\$ANALYZE_SDESC	0000F2A4	0000F2A4	00000000 (	0.) LONG 2	

! Symbol Cross Reference !

Symbol	Value	Defined By	Referenced By ...
CRD\$ADVANCE_DIAGNOSTIC	00000BF8-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$ADVANCE_GENERAL_COM	00000C84-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$AL_CRD_DISPATCH_VECTORS	00000000-R	CRDVECS	CRDACT1 CRDMMACT
			CRDSTOP MENCNTLC
			MENPROMPT
CRD\$AL_IDC_HDWR_SPRT_TABLE	0000E670-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$AL_LESI_HDWR_SPRT_TABLE	0000E710-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$AL_UDA_0_HDWR_SPRT_TABLE	0000E770-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$AL_UDA_1_HDWR_SPRT_TABLE	0000E7F0-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$AL_UDA_2_HDWR_SPRT_TABLE	0000E890-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$AL_UDA_3_HDWR_SPRT_TABLE	0000E910-R	CRDHDWSUP	CRDACT2 CRDDDB
			CRDHDWSUP
CRD\$ASSIGN_PTABLE_PTRS	00000CC0-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$AUTOSIZER_ERROR	0000087C-R	CRDACT1	CRDACT1 CRDMMACT
			CRDSTATE
CRD\$AUTOSIZER_SET_FLAGS	00000D10-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$AUTO_SUMMARY	0000418A-R	CRDSTOP	CRDSTOP
CRD\$BUILD_DDBS	000012E0-R	CRDDDB	CRDACT2 CRDDDB
CRD\$BUILD_SUPPORT_TABLE	000020E0-R	CRDHDWSUP	CRDHDWSUP CRDINIT
CRD\$CHECK_CTRL_C	000012D4-R	CRDCTRLC	CRDCTRLC
CRD\$CLEAR_CTRL_C_FLAG	000012CC-R	CRDCTRLC	CRDCTRLC CRDSTOP
			MENCNTLC
CRD\$CLEAR_CTRL_C_HANDLERS	000012A3-R	CRDCTRLC	CRDCTRLC MENCNTLC
CRD\$COMMON_INITIALIZATIONS	00002F03-R	CRDINIT	CRDINIT MENTSTINI
CRD\$CONTROL_C_HANDLER	00004174-R	CRDSTOP	CRDINIT CRDSTOP
CRD\$CRD_INITIALIZATION	00002EA8-R	CRDINIT	CRDINIT CRDINTRFC
CRD\$DETERMINE_BASE_SYSTEM	00000D5D-R	CRDACT2	
CRD\$DIAGNOSTIC_ERROR	0000089C-R	CRDACT1	CRDACT1 CRDSTATE
CRD\$DISABLE_CTRL_C	000012BA-R	CRDCTRLC	CRDCTRLC CRDSTOP
			MENCNTLC
CRD\$DISPOSE	00001F9F-R	CRDDDB	CRDDDB CRDSTOP
			MENTSTINI
CRD\$DONE_GENERAL_COMS	00000E9F-R	CRDACT2	CRDACT2 CRDHSACT
			CRDSTATE
CRD\$DS\$GA_PTDESC	0000003C-R	CRDVECS	
CRD\$DSR\$CHECK_AUTOTEST_OFF_SET	00000038-R	CRDVECS	CRDSTOP
CRD\$DSR\$CHECK_MENUTEST_OFF_SET	00000034-R	CRDVECS	CRDSTOP
CRD\$DS_INTERFACE	00002F70-R	CRDINTRFC	CRDINTRFC CRDSTOP
			CRDVECS
CRD\$ENABLE_CTRL_C	000012B0-R	CRDCTRLC	CRDCTRLC CRDINIT
			MENCNTLC
CRD\$EXE\$ALONONPAGED	00000018-R	CRDVECS	CRDDDB MENTSTINI

Symbol	Value	Defined By	Referenced By ...
CRD\$EXE\$DEANONPAGED	00000024-R	CRDVECS	CRDDDB
CRD\$EXIT_CRD	000008F6-R	CRDACT1	CRDACT1
CRD\$EXIT_DS	00000004-R	CRDVECS	CRDSTOP
CRD\$FIND_PTABLE	000037E8-R	CRDPTABLE	CRDACT2
CRD\$GAW_HS_STATE_TABLE	0000CDB8-R	MENSTATE	MENSTATE
CRD\$GAW_MM_STATE_TABLE	0000BBE8-R	MENSTATE	MENSTATE
CRD\$GAW_TQ_STATE_TABLE	0000C7C8-R	MENSTATE	MENSTATE
CRD\$GA_BEGIN	0000002C-R	CRDVECS	CRDSTOP
CRD\$GA_CRD_MESSAGE_BUFFER	0000EAE8-R	CRDTEXT	CRDACT2
			CRDTEXT
CRD\$GA_CURRENT_DIAGNOSTIC	0000E65C-R	CRDDDB	CRDACT1
			CRDDDB
CRD\$GA_DS_CTRL_C_FIRST	00000010-R	CRDVECS	CRDCTRLC
CRD\$GA_DS_CTRL_C_SECOND	00000028-R	CRDVECS	CRDCTRLC
CRD\$GA_DS_FLAGS	0000000C-R	CRDVECS	CRDCTRLC
			MENTURING
CRD\$GA_FILE_FAB	0000EBF8-R	CRDMMACT	CRDMMACT
CRD\$GA_FILE_RAB	0000EC48-R	CRDMMACT	CRDMMACT
CRD\$GA_FIRST_DIAGNOSTIC	0000E660-R	CRDDDB	CRDACT1
			CRDDDB
CRD\$GA_GENERAL_COMMANDS	00007B54-R	CRDGENCOM	CRDGENCOM
CRD\$GA_HDWR_SPRT_TABLE	0000E66C-R	CRDHDWSUP	CRDACT2
CRD\$GA_HS_CURRENT_DDB_PTR	0000EF80-R	MENSTATE	CRDHSACT
			CRDTQACT
CRD\$GA_HS_CURRENT_HSB_PTR	0000EF84-R	MENSTATE	CRDHSACT
			MENSTATE
CRD\$GA_PTABLE	00000014-R	CRDVECS	CRDPTABLE
CRD\$GA_REC_BUF	0000EB84-R	CRDMMACT	CRDMMACT
CRD\$GA_USER_ERROR_TEXT	0000001C-R	CRDVECS	CRDACT1
CRD\$GB_AUTO_TO_MENU OFF	0000ED7C-R	CRDSTOP	
CRD\$GB_BASE_SYSTEM	0000E668-R	CRDHDWSUP	CRDACT2
			CRDHDWSUP
CRD\$GB_CRD_DEBUG	00000030-R	CRDVECS	CRDACT1
			CRDDDB
			CRDINIT
			CRDTQACT
			MENTST
			MENTURING
CRD\$GB_CURRENT_STATE_TABLE	0000EF8C-R	MENSTATE	CRDHSACT
			CRDTQACT
			MENSTATE
			MENTURING
CRD\$GB_USER_PROMPT_OKAY	0000EA4C-R	CRDINTRFC	CRDINTRFC
			MENCNTLC
CRD\$GET_ACTION_ROUTINE	00003988-R	CRDSTATE	CRDSTATE
CRD\$GET_DEVICE_NAME	00003835-R	CRDPTABLE	CRDHSACT
			CRDSTOP
			MENTST
CRD\$GET_GENERAL_COMMAND	0000205D-R	CRDGENCOM	CRDACT2
CRD\$GET_STATE	0000394F-R	CRDSTATE	CRDSTATE

Symbol	Value	Defined By	Referenced By ...
CRD\$GL_CRD_DEBUG_VECTOR	0000ED80-R	CRDSTOP	CRDACT1 CRDSTOP CRDMMACT
CRD\$GL_CURRENT_ACTION	0000ED74-R	CRDSTATE	CRDACT1 MENTURING CRDSTATE
CRD\$GL_CURRENT_GENERAL_COM	0000E664-R	CRDGENCOM	CRDACT2 CRDHSACT CRDGENCOM
CRD\$GL_CURRENT_STATE	0000ED70-R	CRDSTATE	CRDACT1 CRDSTATE CRDACT2
CRD\$GL_CURRENT_TYPECODE	0000ED6C-R	CRDSTATE	CRDACT1 MENTURING CRDSTATE
CRD\$GL_HS_CURRENT_HSB_NUMB	0000EF88-R	MENSTATE	CRDHSACT MENSTATE CRDMMACT
CRD\$GL_HS_CURRENT_STATE	0000EF78-R	MENSTATE	CRDHSACT MENCNTLC MENSTATE MENTURING
CRD\$GL_MM_CURRENT_STATE	0000EF70-R	MENSTATE	CRDMMACT MENSTATE MENCNTLC
CRD\$GL_PREVIOUS_STATE	0000EF6C-R	MENSTATE	CRDMMACT MENTURING MENSTATE
CRD\$GL_SAVED_DSA_FLAGS	0000E9B4-R	CRDINIT	CRDINIT
CRD\$GL_TQ_CURRENT_STATE	0000EF74-R	MENSTATE	CRDMMACT MENCNTLC CRDTQACT MENTURING MENSTATE
CRD\$GL_TQ_CURRENT_TQ_ENTRY	0000EF7C-R	MENSTATE	CRDMMACT MENSTATE CRDTQACT
CRD\$GT_2_TABS	000086A3-R	CRDTEXT	CRDTEXT
CRD\$GT_ALL_FAILURES	00008B35-R	CRDTEXT	CRDSTOP MENTST CRDTEXT
CRD\$GT_ALL_INC_HDWR_PREP	00008B91-R	CRDTEXT	CRDSTOP MENTST CRDTEXT
CRD\$GT_ALL_OTHERS	00008BD7-R	CRDTEXT	CRDSTOP MENTST CRDTEXT
CRD\$GT_ALL_PASSES	00008B63-R	CRDTEXT	CRDSTOP MENTST CRDTEXT
CRD\$GT_AUTO	000086AD-R	CRDTEXT	CRDINIT CRDTEXT CRDTEXT
CRD\$GT_AUTOSIZER_ERROR	000089F7-R	CRDTEXT	CRDACT1 CRDMMACT
CRD\$GT_AUTOSIZER_NAME	00009BDD-R	CRDMMACT	CRDACT2 CRDMMACT
CRD\$GT_AUTOSIZER_SET_FLAGS	00009BE3-R	CRDMMACT	CRDACT2 CRDMMACT
CRD\$GT_CANNOT_LOAD_DIAG	00008A73-R	CRDTEXT	CRDACT1 CRDTEXT
CRD\$GT_CONTROL_C_ABORT	000088B8-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_BAD_DEVICE	00008743-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_DEV_UNTESTED	000087BD-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_END_MESSAGE	000088EB-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_ERRORS_COMPLETE	00008724-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_EVSBA_ERROR	00008810-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_EVSBB_ERROR	0000883A-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_FATAL_ERROR	00008864-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_INCOMPLETE	0000877A-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_CRD_NO_ERRORS	00008702-R	CRDTEXT	CRDSTOP CRDTEXT
CRD\$GT_DEV_UNAVAILABLE	00008A43-R	CRDTEXT	CRDACT2 CRDTEXT

Symbol	Value	Defined By	Referenced By ...
CRD\$GT_DEV_UNAVAILABLE_2	00008A5C-R	CRDTEXT	CRDSTOP
CRD\$GT_DS_COMMAND_OUT	00008AF5-R	CRDTEXT	CRDHSACT
CRD\$GT_DS_LOAD_COM	000084B6-R	CRDHDWSUP	CRDACT2
			CRDHSACT
CRD\$GT_DS_SELECT_COM	000084D8-R	CRDHDWSUP	CRDACT2
			CRDHSACT
CRD\$GT_DS_SET_EVENT_COM	000084C7-R	CRDHDWSUP	CRDACT2
			CRDHSACT
CRD\$GT_DS_SET_FLAGS_COM	000084BC-R	CRDHDWSUP	CRDACT2
			CRDHSACT
CRD\$GT_DS_START_COM	000084E0-R	CRDHDWSUP	CRDACT2
			CRDHSACT
CRD\$GT_EXIT_TO_CLI	0000894F-R	CRDTEXT	CRDSTOP
CRD\$GT_EXIT_TO_CONSOLE	00008912-R	CRDTEXT	CRDSTOP
CRD\$GT_FAIL	000086E6-R	CRDTEXT	CRDACT1
			CRDTEXT
CRD\$GT_INIT_ALL_PASSES	00008BFD-R	CRDTEXT	CRDSTOP
CRD\$GT_INTERNAL_ERROR	00008AC5-R	CRDTEXT	CRDSTOP
			MENTST
CRD\$GT_INTERNAL_ERROR_ABORT	0000888E-R	CRDTEXT	CRDSTOP
CRD\$GT_INV_BASE_SYSTEM	000089C0-R	CRDTEXT	CRDSTOP
CRD\$GT_MENU	000086A8-R	CRDTEXT	CRDINIT
CRD\$GT_NEW_LINE	00008696-R	CRDTEXT	CRDACT1
			CRDTEXT
			MENTST
CRD\$GT_NEW LINE_MESSAGE	00008B14-R	CRDTEXT	CRDSTOP
			MENCNTLC
			MENTST
CRD\$GT_PASS	000086F4-R	CRDTEXT	CRDACT2
			CRDTEXT
CRD\$GT_PREP_ERROR_SPACES	00008ABB-R	CRDTEXT	CRDACT1
CRD\$GT_PRESS_RETURN	00008989-R	CRDTEXT	CRDSTOP
CRD\$GT_PRESS_RETURN_MM	000089A2-R	CRDTEXT	CRDSTOP
CRD\$GT_RUNTIME	000086D8-R	CRDTEXT	CRDACT2
CRD\$GT_SAME_LINE_MESSAGE	00008B13-R	CRDTEXT	CRDTEXT
CRD\$GT_SLASH	0000869C-R	CRDTEXT	CRDSTOP
			MENTST
CRD\$GT_SPACE_AND_SPACE	00008690-R	CRDTEXT	CRDSTOP
CRD\$GT_START_ERROR	00008A93-R	CRDTEXT	CRDACT1
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	00008B17-R	CRDTEXT	CRDTEXT
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	00008B1D-R	CRDTEXT	CRDTEXT
CRD\$GT_SUMMARY_TITLE	00008B21-R	CRDTEXT	CRDSTOP
			MENTST
CRD\$GT_TAB	00008699-R	CRDTEXT	CRDSTOP
			MENTST
CRD\$GT_TESTING_DEVICE	000086B2-R	CRDTEXT	CRDACT2
CRD\$GT_TESTING_STARTED	000086BA-R	CRDTEXT	CRDACT2
CRD\$GT_UNKNOWN	0000869E-R	CRDTEXT	CRDSTOP
CRD\$GT WHICH CRD	0000E9B0-R	CRDINIT	CRDINIT
CRD\$GW STATE TABLE	00009E6C-R	CRDSTATE	CRDSTATE

Symbol	Value	Defined By	Referenced By ...
CRD\$INIT_DDB_STATUS	00001FD9-R	CRDDDB	CRDDDB CRDHSACT
CRD\$INIT_GENERAL_COM_TABLE	00002054-R	CRDGENCOM	CRDTQACT CRDGENCOM CRDINIT
CRD\$INIT_STATE_TABLE	00003938-R	CRDSTATE	MENTSTINI CRDINIT CRDSTATE
CRD\$INTERNAL_ERROR	000009BA-R	CRDACT1	CRDACT1 CRDACT2 CRDSTATE
CRD\$LEVEL_4_PASSED	00000EC9-R	CRDACT2	CRDDDB MENTURING CRDSTATE
CRD\$LOAD_AUTOSIZER	00000EE0-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$LOAD_ERROR	00000A34-R	CRDACT1	CRDACT1 CRDHSACT
CRD\$LOAD_GENERAL_COM	00000F27-R	CRDACT2	CRDSTATE CRDACT2 CRDHSACT
CRD\$LOAD_LOAD_COM	00000F6C-R	CRDACT2	CRDSTATE
CRD\$LOAD_SELECT_COM	00000FC0-R	CRDACT2	CRDSTATE
CRD\$LOAD_SET_EVENT_COM	00001017-R	CRDACT2	CRDSTATE
CRD\$LOAD_SET_FLAGS_COM	0000106E-R	CRDACT2	CRDSTATE
CRD\$LOAD_START_COM	000010C5-R	CRDACT2	CRDSTATE
CRD\$LOG_START	000030B3-R	CRDINTRFC	
CRD\$LOG_STOP	00003154-R	CRDINTRFC	
CRD\$LOG_WRITE	00003172-R	CRDINTRFC	
CRD\$NEW	00001FEC-R	CRDDDB	
CRD\$PREPARATION_ERROR	00000A68-R	CRDACT1	CRDDDB CRDACT1 CRDSTATE
CRD\$PRINT	00000008-R	CRDVECS	CRDACT1 CRDACT2 CRDGENCOM CRDHSACT CRDPTABLE CRDSTOP CRDTYPCOD MENPROMPT MENTSTINI
CRD\$PRINT_ACTION_ROUTINE	00003C31-R	CRDSTATE	
CRD\$PRINT_COMMAND_TABLE	00002081-R	CRDGENCOM	
CRD\$PRINT_DDB	00000B27-R	CRDACT1	CRDACT1 CRDSTOP CRDACT2
CRD\$PRINT_DS_COMMAND	00002E85-R	CRDHSACT	CRDSTATE CRDGENCOM CRDACT1 CRDSTOP CRDACT2 CRDHSACT
CRD\$PRINT_HARDWARE_SUPPORT	00002A95-R	CRDHDWSUP	CRDINIT
CRD\$PRINT_PTABLES	00003865-R	CRDPTABLE	CRDPTABLE
CRD\$PRINT_TYPECODE_NAME	00004764-R	CRDTYPCOD	CRDSTATE CRDTYPCOD
CRD\$SCAN\$NUMERIC	00000020-R	CRDVECS	MENTURING MENTST
CRD\$SCREEN_PAUSE	00004496-R	CRDSTOP	CRDMMACT MENPROMPT
CRD\$SET_CTRL_C_FLAG	000012C4-R	CRDCTRLC	MENTST
CRD\$SET_CTRL_C_HANDLERS	00001294-R	CRDCTRLC	CRDCTRLC CRDCTRLC CRDINIT

Symbol	Value	Defined By	Referenced By ...
CRD\$SET_UP_DIAGNOSTIC	00001114-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$START_AUTOSIZER	00001269-R	CRDACT2	CRDACT2 CRDSTATE
CRD\$START_ERROR	00000BC5-R	CRDACT1	CRDACT1 CRDHSACT
CRD\$STOP	00003E5C-R	CRDSTOP	CRDSTATE CRDACT1 CRDACT2 CRDHSACT CRDMMACT CRDSTOP CRDTQACT MENCNTLC MENPROMPT MENTSTINI
CRD\$TURING_MACHINE	000039C0-R	CRDSTATE	CRDSTATE CRDINTRFC CRDSTATE CRDACT1 CRDHSACT
DS\$ABORT	00010020	CRDSTATE	
DS\$ASKADR	00010090	CRDSTATE	
DS\$ASKDATA	00010080	CRDSTATE	
DS\$ASKLGCL	00010098	CRDSTATE	
DS\$ASKSTR	000100A0	CRDSTATE	CRDSTOP MENPROMPT MENCNTLC MENTST
DS\$ASKVLD	00010088	CRDSTATE	
DS\$ATTACH	000101A8	CRDSTATE	
DS\$BGNSUB	00010030	CRDSTATE	
DS\$BRANCH	000100A8	CRDSTATE	
DS\$BREAK	00010058	CRDSTATE	CRDSTATE MENCNTLC MENTST CRDSTOP MENPROMPT MENTURING
DS\$CANWAIT	00010070	CRDSTATE	
DS\$CHANNEL	00010180	CRDSTATE	
DS\$CKLOOP	00010040	CRDSTATE	
DS\$CLRVEC	00010168	CRDSTATE	
DS\$CNTRLC	00010078	CRDSTATE	
DS\$CVTREG	000100B0	CRDSTATE	
DS\$ENDPASS	00010010	CRDSTATE	
DS\$ENDSUB	00010038	CRDSTATE	
DS\$ERRDEV	000100C8	CRDSTATE	
DS\$ERRHARD	000100D0	CRDSTATE	
DS\$ERRPREP	00010108	CRDSTATE	
DS\$ERRSOFT	000100D8	CRDSTATE	
DS\$ERRSYS	000100C0	CRDSTATE	
DS\$ESCAPE	00010050	CRDSTATE	
DS\$FREEDBGSYM	000101B8	CRDSTATE	
DS\$GETBUF	00010120	CRDSTATE	
DS\$GETTERM	000101C8	CRDSTATE	CRDSTOP MENTST
DS\$GPARD	00010018	CRDSTATE	
DS\$HELP	000101B0	CRDSTATE	
DS\$INITSCB	00010170	CRDSTATE	
DS\$INLOOP	00010048	CRDSTATE	
DS\$LOAD	00010198	CRDSTATE	MENTSTINI
DS\$LOADPCS	000101C0	CRDSTATE	
DS\$MAPDBGBLOCK	00010118	CRDSTATE	
DS\$MEMSIZE	000101D8	CRDSTATE	
DS\$MMOFF	00010158	CRDSTATE	
DS\$MMON	00010150	CRDSTATE	

Symbol	Value	Defined By	Referenced By ...
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DSSPARSE	000100B8	CRDSTATE	
DSSPRINTB	000100E0	CRDSTATE	
DSSPRINTF	000100F0	CRDSTATE	
DSSPRINTS	000100F8	CRDSTATE	
DSSPRINTSIG	00010100	CRDSTATE	
DSSPRINTX	000100E8	CRDSTATE	
DSSPROBE	000101A0	CRDSTATE	
DSSRELBUF	00010128	CRDSTATE	
DSSSERVICE_DISPATCHER	000101D0	CRDSTATE	
DSSSETIPL	00010178	CRDSTATE	
DSSSETMAP	00010188	CRDSTATE	
DSSSETPRIEXV	00010110	CRDSTATE	
DSSSETVEC	00010160	CRDSTATE	
DSSSHOCHAN	00010190	CRDSTATE	
DSSSUMMARY	00010028	CRDSTATE	
DSSWAITMS	00010060	CRDSTATE	
DSSWAITUS	00010068	CRDSTATE	
HSSADVANCE_DIAGNOSTIC	00002B27-R	CRDHSACT	CRDHSACT MENTURING
HSSADVANCE_GENERAL_COM	00002BE5-R	CRDHSACT	CRDHSACT MENTURING
HSSCHANGE_TABLE	00002D99-R	CRDHSACT	CRDHSACT MENTURING
HSSDIAGNOSTIC_ERROR	00002DE7-R	CRDHSACT	CRDHSACT MENTURING
HSSDONE_GENERAL_COMS	00002C03-R	CRDHSACT	CRDHSACT MENTURING
HSSINIT_HS	00002B08-R	CRDHSACT	CRDHSACT MENTURING
HSSINTERNAL_ERROR	00002E66-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_ERROR	00002DAD-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_GENERAL_COM	00002BD7-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_LOAD_COM	00002C0D-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_SELECT_COM	00002CFA-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_SET_EVENT_COM	00002CA7-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_SET_FLAGS_COM	00002C54-R	CRDHSACT	CRDHSACT MENTURING
HSSLOAD_START_COM	00002D4E-R	CRDHSACT	CRDHSACT MENTURING
HSSPREPARATION_ERROR	00002E3A-R	CRDHSACT	CRDHSACT MENTURING
HSSSTART_ERROR	00002DCA-R	CRDHSACT	CRDHSACT MENTURING
LIB\$ANALYZE_SDESC	0000F23C-R	LIB\$ANALYZE_SDESC	
LIB\$ANALYZE_SDESC_R2	0000F251-R	LIB\$ANALYZE_SDESC	
LIB\$SPAWN	0000F0CC-R	LIB\$SPAWN	LIB\$SPAWN
LIB\$_INVARG	00158234	LIB\$MSGDEF	CRDMMACT
LIB\$_INVSTRDES	00158224	LIB\$MSGDEF	LIB\$SPAWN
LIB\$_NOCLI	0015837C	LIB\$MSGDEF	LIB\$ANALYZE_SDESC
MEN\$ALLOCATE_MEMORY	00006155-R	MENTSTINI	LIB\$SPAWN
MEN\$BLDTSTQ_FNCTST_ALL	00006518-R	MENTSTQ	MENTSTINI
MEN\$BLDTSTQ_FNCTST_DEV	000065A3-R	MENTSTQ	MENTSTQ
MEN\$BUILD_DDB	00005DFB-R	MENTSTQ	MENTSTQ
MEN\$CNTLC_INIT_TBL_INIT	0000491C-R	MENTSTINI	MENTSTQ
MEN\$CNTLC_MENU	00004A36-R	MENCNTLC	MENTSTINI
MEN\$CNTLC_TBL_INIT	00004952-R	MENCNTLC	MENTSTINI
MEN\$CVT_TIME_ASC_D	00005983-R	MENCNTLC	MENTSTINI
MEN\$DETERMINE_SUPPORT	00005F03-R	MENCNTLC	MENTSTINI
MEN\$DUMP_TSTQ_HST	0000633D-R	MENTST	MENTST
MEN\$FIND_SUPBLK	000062BF-R	MENTSTINI	MENTSTINI
		MENTSTINI	MENTSTINI

Symbol	Value	Defined By	Referenced By ...
MEN\$FNCTST_CMPLERR_STATUS	000056A4-R	MENTST	CRDTQACT MENTST
MEN\$FNCTST_TESTSTRT_TEXT	000057E7-R	MENTST	CRDHSACT MENTST
MEN\$FNDDDB_TCL	000053C2-R	MENPROMPT	MENTSTINI
MEN\$FNDDDB_TCL_SDN	00005371-R	MENPROMPT	MENPROMPT
MEN\$FTMTBL_INIT	00004BFC-R	MENPROMPT	MENPROMPT
MEN\$FUNCTEST_MENU	00004D03-R	MENPROMPT	MENTSTINI
MEN\$GA_DDB_HEAD	0000F090-R	MENTSTINI	CRDMMACT MENPROMPT
			MENTSTQ MENTSTINI
MEN\$GA_FTMTBL	0000EF08-R	MENPROMPT	MENTSTQ
MEN\$GA_FUNCUP_DATABASE	0000F098-R	MENTSTINI	MENTSTINI
MEN\$GA_PREPTBL	0000EF40-R	MENPROMPT	MENTSTINI
MEN\$GA_TEST_QUEUE	0000F0A8-R	MENTSTINI	CRDTQACT MENTST
			MENTSTINI MENTSTQ
MEN\$GA_TMTBL	0000EF28-R	MENPROMPT	MENTSTQ
MEN\$GB_FNCTST_INIT	0000F0B4-R	MENTSTINI	MENCNTLC MENPROMPT
			MENTSTINI
MEN\$GB_TEST_IN_PROGRESS	0000F0B5-R	MENTSTINI	MENTST
			MENTSTINI
MEN\$GENERATE_ONLINE_ATTACH	00000068-R	MENGOA	CRDMMACT
MEN\$GET_TSTCLA_NAME	000052C0-R	MENPROMPT	MENPROMPT
MEN\$GT_ASSISTANCE_MSG	000093B8-R	CRDTEXT	MENTST
MEN\$GT_AUTOSIZER_BEGIN	00008CE5-R	CRDTEXT	MENTST
MEN\$GT_AUTOSIZER_END	00008D35-R	CRDTEXT	CRDTEXT
MEN\$GT_CALL_FLDSRV	000094A1-R	CRDTEXT	CRDMMACT
MEN\$GT_CNTLCM_CHOICE	000090B0-R	CRDTEXT	CRDTEXT
MEN\$GT_CNTLC_CONTINUING	0000911E-R	CRDTEXT	MENTST
MEN\$GT_CNTLC_MENU_PROMPT	000090F8-R	CRDTEXT	MENCNTLC
MEN\$GT_CNTLC_MENU_SELECTION	00009039-R	CRDTEXT	MENCNTLC
MEN\$GT_CNTLC_MENU_TITLE	0000900C-R	CRDTEXT	MENCNTLC
MEN\$GT_CNTLC_SEL_CONTINUE	0000904D-R	CRDTEXT	MENCNTLC
MEN\$GT_CNTLC_SEL_EXIT	00008DA1-R	CRDTEXT	MENCNTLC
MEN\$GT_CNTLC_SEL_FTMENU	00009079-R	CRDTEXT	MENCNTLC
MEN\$GT_CTRL_C_FNCTST	00009258-R	CRDTEXT	MENCNTLC
MEN\$GT_DEVTSTPREP_1	000097D8-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_2	000098A9-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_3	00009914-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_4	000099DC-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_5	00009A5D-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_6	00009ADA-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_7	00009B9A-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_NAME	00009789-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_NULL	000097AC-R	CRDTEXT	MENPROMPT
MEN\$GT_DEVTSTPREP_TEXT	0000979C-R	CRDTEXT	MENPROMPT
MEN\$GT_END_OF_LIST	00009244-R	CRDTEXT	MENPROMPT
MEN\$GT_FAILED_HDWR_NAME	000094E3-R	CRDTEXT	MENTST
MEN\$GT_FAILED_ONL_AUTOSIZER	00009594-R	CRDTEXT	CRDTEXT
MEN\$GT_FILE_DEFAULT	0000DB5C-R	MENTSTINI	CRDMMACT
MEN\$GT_FNCTST_CMPL_ERR	0000936B-R	CRDTEXT	MENTSTINI
MEN\$GT_FNCTST_CMPL_NOERR	00009315-R	CRDTEXT	CRDTEXT
			MENTST

Symbol	Value	Defined By	Referenced By ...
MEN\$GT_FNCTST_INCMPL_ERR	0000933F-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_FNCTST_INCMPL_NOERR	00009395-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_FNCTST_TESTSTRT_TEXT	00009465-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_FTMENU_SELECTION	00008D91-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMPROMPT	00008EAF-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMSEL_EXIT	00008DA1-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMSEL_FNCTST_ALL	00008E4E-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMSEL_PREP	00008DB0-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMSEL_SYSTEM_HDW	00008E12-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMSEL_TEST	00008DEA-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTMTITLE	00008D63-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FTM_CHOICE	00008E6A-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_FUNCTEST_BEGIN	000092BC-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_INVOPERINPUT	000094BC-R	CRDTEXT	CRDSTOP CRDTEXT MENCNTLC MENTST MENTSTINI
MEN\$GT_MENFUNCSUP_FILE	0000DB52-R	MENTSTINI	CRDSTOP MENTSTINI
MEN\$GT_MENUATEST_ABORTED	000093EA-R	CRDTEXT	CRDTEXT
MEN\$GT_MENUATEST_BEGIN	00008C13-R	CRDTEXT	CRDMMACT CRDTEXT
MEN\$GT_NOALL_NONPGMEM	000096D1-R	CRDTEXT	CRDTEXT MENTSTINI
MEN\$GT_NOSUPPORT	00009239-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_NULL	000094A0-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_OPERATOR_ABORT	0000940B-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_OPERATOR_STOP	00009438-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_OPERINPUT_BUFFER	0000EE08-R	MENPROMPT	MENPROMPT MENTST
MEN\$GT_PREP_ERROR_TEXT	00009505-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_PREP_ERROR_TEXT_NO_USER	00009556-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_PRESS_RETURN_TM	00008FEE-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_RUNTIME_TOTAL	000092EB-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_SCRMEDIA_HDW	0000966F-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_SCRMEDIA_HDW_END	0000968D-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_SCRMEDIA_MSG	000095C0-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_SCRMEDIA_PROMPT	00009695-R	CRDTEXT	CRDTEXT MENTST
MEN\$GT_SUPPORTED	0000922F-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_SUPPORT_FILE_LOAD_ERR	0000973B-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_SUPPORT_FILE_NOT_FOUND	000096F3-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_SYSHDW_TITLE	000091B1-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_SYSTEM_HDW TEXT	0000921D-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TMENU_SELECTION	00008EE6-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TMENU_TSTALL	00008F07-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TMPROMPT	00008F99-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TMTITLE	00008ECC-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TM_CHOICE	00008F42-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TM_MSG	00008FB6-R	CRDTEXT	CRDSTOP CRDTEXT
MEN\$GT_TSTCLA_ALL	000091A7-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_CARD	00009193-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_COMM	0000916B-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_CPU	00009143-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_DISK	00009157-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_IODAP	0000919D-R	CRDTEXT	CRDTEXT MENPROMPT

Symbol	Value	Defined By	Referenced By ...
MEN\$GT_TSTCLA_MEMORY	0000914D-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_NULLNAME	000091A7-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_PRINTER	00009189-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_REAL	00009175-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_TAPE	00009161-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$GT_TSTCLA_TERM	0000917F-R	CRDTEXT	CRDTEXT MENPROMPT
MEN\$INIT_HS_STATE_TABLE	000065D8-R	MENTURING	MENTSTINI MENTURING
MEN\$INIT_MM_STATE_TABLE	000065C4-R	MENTURING	MENTSTINI MENTURING
MEN\$INIT_TQ_STATE_TABLE	000065CE-R	MENTURING	MENTSTINI MENTURING
MEN\$LOAD_FILE	000061BE-R	MENTSTINI	MENTSTINI
MEN\$MENU_CLEANUP	00006480-R	MENTSTINI	CRDSTOP MENTSTINI
MEN\$MENU_FNCTST_INIT	00005D14-R	MENTSTINI	CRDINTRFC MENTSTINI
MEN\$MENU_SUMMARY	00005B57-R	MENTST	MENTST
MEN\$MENU_TEST_INTERNAL_ERROR	0000370F-R	CRDMMACT	CRDHSACT CRDMMACT
			CRDTQACT MENTSTINI
MEN\$PREPARATION_ERR_TEXT	000059F1-R	MENTST	CRDHSACT MENTST
MEN\$PREPTBL_INIT	00004C32-R	MENPROMPT	MENPROMPT MENTSTINI
MEN\$PRINT_ACTION_ROUTINE	00006AFB-R	MENTURING	MENTURING
MEN\$PRINT_DEVTSTPREP	00005404-R	MENPROMPT	MENPROMPT
MEN\$PRINT_FAILED_HDWR	00005840-R	MENTST	MENTST
MEN\$PRINT_RUNTIME_TOTAL	00005909-R	MENTST	MENPROMPT MENTST
MEN\$PRINT_SYSTEM_HDWR	000055AF-R	MENPROMPT	MENPROMPT
MEN\$SCAN_NUMERIC_ASC_D	000059DA-R	MENTST	MENPROMPT MENTST
MEN\$SCRATCH_MEDIA_MSG	00005A46-R	MENTST	MENPROMPT MENTST
MEN\$SPECIFY_SELECTNO	000060F4-R	MENTSTINI	CRDMMACT MENTSTINI
MEN\$TEST_MENU	000051C3-R	MENPROMPT	MENPROMPT
MEN\$TURING_MACHINE	00006786-R	MENTURING	CRDINTRFC MENTURING
MM\$AUTOSIZER_ERROR	000036FA-R	CRDMMACT	CRDMMACT MENTURING
MM\$BUILD_DDBS	00003673-R	CRDMMACT	CRDMMACT MENTURING
MM\$BUILD_HSTS	0000369A-R	CRDMMACT	CRDMMACT MENTURING
MM\$CHANGE_TABLE	000036C8-R	CRDMMACT	CRDMMACT MENTURING
MM\$DONE_INITS	000036AE-R	CRDMMACT	CRDMMACT MENTURING
MM\$INTERNAL_ERROR	000036DA-R	CRDMMACT	CRDMMACT MENTURING
MM\$LOAD_AUTOSIZER	000031B7-R	CRDMMACT	CRDMMACT MENTURING
MM\$MENU_PROMPT	000036D5-R	CRDMMACT	CRDMMACT MENTURING
MM\$PRINT_MENU	000036B4-R	CRDMMACT	CRDMMACT MENTURING
MM\$PRINT_MENU_HEADING	000031A0-R	CRDMMACT	CRDMMACT MENTURING
MM\$SET_FLAGS_AUTOSIZER	000032FA-R	CRDMMACT	CRDMMACT MENTURING
MM\$START_AUTOSIZER	00003520-R	CRDMMACT	CRDMMACT MENTURING
SYSS\$ALLOC	00010238	CRDSTATE	
SYSS\$ASCTIM	00010248	CRDSTATE	
SYSS\$ASSIGN	00010250	CRDSTATE	
SYSS\$BINTIM	00010258	CRDSTATE	
SYSS\$CANCEL	00010260	CRDSTATE	
SYSS\$CANTIM	00010268	CRDSTATE	
SYSS\$CLI	7FFEDE18	SYS\$P1 VECTOR	LIB\$SPAWN
SYSS\$CLOSE	000105B8	CRDSTATE	CRDINTRFC CRDMMACT
			MENTSTINI
SYSS\$CLREF	00010298	CRDSTATE	
SYSS\$CONNECT	000105C0	CRDSTATE	CRDMMACT

Symbol	Value	Defined By	Referenced By ...
SYSDALLOC	000102D8	CRDSTATE	
SYSDASSGN	000102E0	CRDSTATE	
SYSDISCONNECT	000105D0	CRDSTATE	
SYSERASE	7FFEE1E0	SYS\$P1_VECTOR	CRDINTRFC
SY\$FAO	00010350	CRDSTATE	CRDINTRFC MENTSTINI
SY\$FAOL	00010358	CRDSTATE	
SY\$GET	00010580	CRDSTATE	CRDMMACT
SY\$GETCHN	000104C8	CRDSTATE	
SY\$GETTIM	00010378	CRDSTATE	
SY\$GTCHAN	00010380	CRDSTATE	
SY\$HIBER	00010380	CRDSTATE	
SY\$LKWSET	000103A0	CRDSTATE	
SY\$NUMTIM	000103B8	CRDSTATE	
SY\$OPEN	00010608	CRDSTATE	CRDINTRFC MENTSTINI
SY\$QIO	000103C8	CRDSTATE	
SY\$QIOW	00010200	CRDSTATE	
SY\$READ	00010590	CRDSTATE	
SY\$READEF	000103D0	CRDSTATE	
SY\$SETAST	000103F8	CRDSTATE	
SY\$SETEF	00010400	CRDSTATE	
SY\$SETIMR	00010420	CRDSTATE	
SY\$SETPRI	00010428	CRDSTATE	
SY\$SETPRT	00010430	CRDSTATE	
SY\$SETRWN	00010438	CRDSTATE	
SY\$ULKPAG	00010460	CRDSTATE	
SY\$ULWSET	00010468	CRDSTATE	
SY\$UNWIND	00010470	CRDSTATE	
SY\$WAITFR	00010478	CRDSTATE	
SY\$WFLAND	00010488	CRDSTATE	
SY\$WFLOR	00010490	CRDSTATE	
SY\$WRITE	7FFEE1B0	SYS\$P1_VECTOR	CRDINTRFC
TQ\$CHANGE_TABLE	0000471B-R	CRDTQACT	CRDTQACT
TQ\$DONE_TEST_QUEUE	00004728-R	CRDTQACT	CRDTQACT
TQ\$GET_DDB	00004685-R	CRDTQACT	CRDTQACT
TQ\$INIT_TQ	00004630-R	CRDTQACT	CRDTQACT
TQ\$INTERNAL_ERROR	00004742-R	CRDTQACT	CRDTQACT

! Symbols By Value !

Value	Symbols...
00000000	R-CRD\$AL_CRD_DISPATCH_VECTORS
00000004	R-CRD\$EXIT_DS
00000008	R-CRD\$PRINT
0000000C	R-CRD\$GA_DS_FLAGS
00000010	R-CRD\$GA_DS_CTRL_C_FIRST
00000014	R-CRD\$GA_PTABLE
00000018	R-CRD\$EXE\$ALONONPAGED
0000001C	R-CRD\$GA_USER_ERROR_TEXT
00000020	R-CRD\$SCAN\$NUMERIC
00000024	R-CRD\$EXE\$DEANONPAGED
00000028	R-CRD\$GA_DS_CTRL_C_SECOND
0000002C	R-CRD\$GA_BEGIN
00000030	R-CRD\$GB_CRD_DEBUG
00000034	R-CRD\$DSR\$CHECK_MENUSET_OFF_SET
00000038	R-CRD\$DSR\$CHECK_AUTOTEST_OFF_SET
0000003C	R-CRD\$DS\$GA_PTDSC
00000068	R-MEN\$GENERATE_ONLINE_ATTACH
0000087C	R-CRD\$AUTOSIZER_ERROR
0000089C	R-CRD\$DIAGNOSTIC_ERROR
000008F6	R-CRD\$EXIT_CRD
000009BA	R-CRD\$INTERNAL_ERROR
00000A34	R-CRD\$LOAD_ERROR
00000A68	R-CRD\$PREPARATION_ERROR
00000B27	R-CRD\$PRINT_DDB
00000BC5	R-CRD\$START_ERROR
00000BF8	R-CRD\$ADVANCE_DIAGNOSTIC
00000C84	R-CRD\$ADVANCE_GENERAL_COM
00000CC0	R-CRD\$ASSIGN_PTABLE_PTRS
00000D10	R-CRD\$AUTOSIZER_SET_FLAGS
00000D5D	R-CRD\$DETERMINE_BASE_SYSTEM
00000E9F	R-CRD\$DONE_GENERAL_COMS
00000EC9	R-CRD\$LEVEL_4_PASSED
00000EE0	R-CRD\$LOAD_AUTOSIZER
00000F27	R-CRD\$LOAD_GENERAL_COM
00000F6C	R-CRD\$LOAD_LOAD_COM
00000FC0	R-CRD\$LOAD_SELECT_COM
00001017	R-CRD\$LOAD_SET_EVENT_COM
0000106E	R-CRD\$LOAD_SET_FLAGS_COM
000010C5	R-CRD\$LOAD_START_COM
00001114	R-CRD\$SET_UP_DIAGNOSTIC
00001269	R-CRD\$START_AUTOSIZER
00001294	R-CRD\$SET_CTRL_C_HANDLERS
000012A3	R-CRD\$CLEAR_CTRL_C_HANDLERS
000012B0	R-CRD\$ENABLE_CTRL_C
000012BA	R-CRD\$DISABLE_CTRL_C
000012C4	R-CRD\$SET_CTRL_C_FLAG
000012CC	R-CRD\$CLEAR_CTRL_C_FLAG

Value	Symbols...
000012D4	R-CRD\$CHECK_CTRL_C
000012E0	R-CRD\$BUILD_DDBS
00001F9F	R-CRD\$DISPOSE
00001FD9	R-CRD\$INIT_DDB_STATUS
00001FEC	R-CRD\$NEW
00002054	R-CRD\$INIT_GENERAL_COM_TABLE
0000205D	R-CRD\$GET_GENERAL_COMMAND
00002081	R-CRD\$PRINT_COMMAND_TABLE
000020E0	R-CRD\$BUILD_SUPPORT_TABLE
00002A95	R-CRD\$PRINT_HARDWARE_SUPPORT
00002B08	R-HS\$INIT_HS
00002B27	R-HS\$ADVANCE_DIAGNOSTIC
00002BD7	R-HS\$LOAD_GENERAL_COM
00002BE5	R-HS\$ADVANCE_GENERAL_COM
00002C03	R-HS\$DONE_GENERAL_COMS
00002C0D	R-HS\$LOAD_LOAD_COM
00002C54	R-HS\$LOAD_SET_FLAGS_COM
00002CA7	R-HS\$LOAD_SET_EVENT_COM
00002CFA	R-HS\$LOAD_SELECT_COM
00002D4E	R-HS\$LOAD_START_COM
00002D99	R-HS\$CHANGE_TABLE
00002DAD	R-HS\$LOAD_ERROR
00002DCA	R-HS\$START_ERROR
00002DE7	R-HS\$DIAGNOSTIC_ERROR
00002E3A	R-HS\$PREPARATION_ERROR
00002E66	R-HS\$INTERNAL_ERROR
00002E85	R-CRD\$PRINT_DS_COMMAND
00002EA8	R-CRD\$CRD_INITIALIZATION
00002F03	R-CRD\$COMMON_INITIALIZATIONS
00002F70	R-CRD\$DS_INTERFACE
000030B3	R-CRD\$LOG_START
00003154	R-CRD\$LOG_STOP
00003172	R-CRD\$LOG_WRITE
000031A0	R-MM\$PRINT_MENU_HEADING
000031B7	R-MM\$LOAD_AUTOSIZER
000032FA	R-MM\$SET_FLAGS_AUTOSIZER
00003520	R-MM\$START_AUTOSIZER
00003673	R-MM\$BUILD_DDBS
0000369A	R-MM\$BUILD_HSTS
000036AE	R-MM\$DONE_INITS
000036B4	R-MM\$PRINT_MENU
000036C8	R-MM\$CHANGE_TABLE
000036D5	R-MM\$MENU_PROMPT
000036DA	R-MM\$INTERNAL_ERROR
000036FA	R-MM\$AUTOSIZER_ERROR
0000370F	R-MEN\$MENU_TEST_INTERNAL_ERROR
000037E8	R-CRD\$FIND_PTABLE
00003835	R-CRD\$GET_DEVICE_NAME
00003865	R-CRD\$PRINT_PTABLES
00003938	R-CRD\$INIT_STATE_TABLE

Value	Symbols...
-----	-----
0000394F	R-CRD\$GET_STATE
00003988	R-CRD\$GET_ACTION_ROUTINE
000039C0	R-CRD\$TURNING_MACHINE
00003C31	R-CRD\$PRINT_ACTION_ROUTINE
00003ESC	R-CRD\$STOP
00004174	R-CRD\$CONTROL_C_HANDLER
0000418A	R-CRD\$AUTO_SUMMARY
00004496	R-CRD\$SCREEN_PAUSE
00004630	R-TQ\$INIT_TQ
00004685	R-TQ\$GET_DDB
0000471B	R-TQ\$CHANGE_TABLE
00004728	R-TQ\$DONE_TEST_QUEUE
00004742	R-TQ\$INTERNAL_ERROR
00004764	R-CRD\$PRINT_TYPECODE_NAME
0000491C	R-MEN\$CNTLC_INIT_TBL_INIT
00004952	R-MEN\$CNTLC_TBL_INIT
00004A36	R-MEN\$CNTLC_MENU
00004BFC	R-MEN\$FTMTBL_INIT
00004C32	R-MEN\$PREPTBL_INIT
00004D03	R-MEN\$FUNCTEST_MENU
000051C3	R-MEN\$TEST_MENU
000052C0	R-MEN\$GET_TSTCLA_NAME
00005371	R-MEN\$FNDDDB_TCL_SDN
000053C2	R-MEN\$FNDDDB_TCL
00005404	R-MEN\$PRINT_DEVTSTPREP
000055AF	R-MEN\$PRINT_SYSTEM_HDWR
000056A4	R-MEN\$FNCTST_CMPLERR_STATUS
000057E7	R-MEN\$FNCTST_TESTSTR_TEXT
00005840	R-MEN\$PRINT_FAILED_HDWR
00005909	R-MEN\$PRINT_RUNTIME_TOTAL
00005983	R-MEN\$CVT_TIME_ASC_D
000059DA	R-MEN\$SCAN_NUMERIC_ASC_D
000059F1	R-MEN\$PREPARATION_ERR_TEXT
00005A46	R-MEN\$SCRATCH_MEDIA_MSG
00005B57	R-MEN\$MENU_SUMMARY
00005D14	R-MEN\$MENU_FNCTST_INIT
00005DFB	R-MEN\$BUILD_DDB
00005F03	R-MEN\$DETERMINE_SUPPORT
000060F4	R-MEN\$SPECIFY_SELECTNO
00006155	R-MEN\$ALLOCATE_MEMORY
000061BE	R-MEN\$LOAD_FILE
000062BF	R-MEN\$FIND_SUPBLK
0000633D	R-MEN\$DUMP_TSTQ_HST
00006480	R-MEN\$MENU_CLEANUP
00006518	R-MEN\$BLDTSTQ_FNCTST_ALL
000065A3	R-MEN\$BLDTSTQ_FNCTST_DEV
000065C4	R-MEN\$INIT_MM_STATE_TABLE
000065CE	R-MEN\$INIT_TQ_STATE_TABLE
000065D8	R-MEN\$INIT_HS_STATE_TABLE
00006786	R-MEN\$TURNING_MACHINE

Value	Symbols...
00006AFB	R-MEN\$PRINT_ACTION_ROUTINE
00007B54	R-CRD\$GA_GENERAL_COMMANDS
000084B6	R-CRD\$GT_DS_LOAD_COM
000084BC	R-CRD\$GT_DS_SET_FLAGS_COM
000084C7	R-CRD\$GT_DS_SET_EVENT_COM
000084D8	R-CRD\$GT_DS_SELECT_COM
000084E0	R-CRD\$GT_DS_START_COM
00008690	R-CRD\$GT_SPACE_AND_SPACE
00008696	R-CRD\$GT_NEW_LINE
00008699	R-CRD\$GT_TAB
0000869C	R-CRD\$GT_SLASH
0000869E	R-CRD\$GT_UNKNOWN
000086A3	R-CRD\$GT_2_TABS
000086A8	R-CRD\$GT_MENU
000086AD	R-CRD\$GT_AUTO
000086B2	R-CRD\$GT_TESTING_DEVICE
000086BA	R-CRD\$GT_TESTING_STARTED
000086D8	R-CRD\$GT_RUNTIME
000086E6	R-CRD\$GT_FAIL
000086F4	R-CRD\$GT_PASS
00008702	R-CRD\$GT_CRD_NO_ERRORS
00008724	R-CRD\$GT_CRD_ERRORS_COMPLETE
00008743	R-CRD\$GT_CRD_BAD_DEVICE
0000877A	R-CRD\$GT_CRD_INCOMPLETE
000087BD	R-CRD\$GT_CRD_DEV_UNTESTED
00008810	R-CRD\$GT_CRD_EVSBA_ERROR
0000883A	R-CRD\$GT_CRD_EVSBB_ERROR
00008864	R-CRD\$GT_CRD_FATAL_ERROR
0000888E	R-CRD\$GT_INTERNAL_ERROR_ABORT
000088B8	R-CRD\$GT_CONTROL_C_ABORT
000088EB	R-CRD\$GT_CRD_END_MESSAGE
00008912	R-CRD\$GT_EXIT_TO_CONSOLE
0000894F	R-CRD\$GT_EXIT_TO_CLI
00008989	R-CRD\$GT_PRESS_RETURN
000089A2	R-CRD\$GT_PRESS_RETURN_MM
000089C0	R-CRD\$GT_INV_BASE_SYSTEM
000089F7	R-CRD\$GT_AUTOSIZER_ERROR
00008A43	R-CRD\$GT_DEV_UNAVAILABLE
00008A5C	R-CRD\$GT_DEV_UNAVAILABLE_2
00008A73	R-CRD\$GT_CANNOT_LOAD_DIAG
00008A93	R-CRD\$GT_START_ERROR
00008ABB	R-CRD\$GT_PREP_ERROR_SPACES
00008AC5	R-CRD\$GT_INTERNAL_ERROR
00008AF5	R-CRD\$GT_DS_COMMAND_OUT
00008B13	R-CRD\$GT_SAME_LINE_MESSAGE
00008B14	R-CRD\$GT_NEW_LINE_MESSAGE
00008B17	R-CRD\$GT_STAR_LINE_PREFIX_MESSAGE
00008B1D	R-CRD\$GT_STAR_LINE_SUFFIX_MESSAGE
00008B21	R-CRD\$GT_SUMMARY_TITLE
00008B35	R-CRD\$GT_ALL_FAILURES

Value	Symbols...
-----	-----
00008B63	R-CRD\$GT_ALL_PASSES
00008B91	R-CRD\$GT_ALL_INC_HDWR_PREP
00008BD7	R-CRD\$GT_ALL_OTHERS
00008BFD	R-CRD\$GT_INIT_ALL_PASSES
00008C13	R-MEN\$GT_MENUTEST_BEGIN
00008CE5	R-MEN\$GT_AUTOSIZER_BEGIN
00008D35	R-MEN\$GT_AUTOSIZER_END
00008D63	R-MEN\$GT_FTMTITLE
00008D91	R-MEN\$GT_FTMENU_SELECTION
00008DA1	R-MEN\$GT_CNTLCL_SEL_EXIT
00008DB0	R-MEN\$GT_FTMSEL_PREP
00008DEA	R-MEN\$GT_FTMSEL_TEST
00008E12	R-MEN\$GT_FTMSEL_SYSTEM_HDWR
00008E4E	R-MEN\$GT_FTMSEL_FNCTST_ALL
00008E6A	R-MEN\$GT_FTM_CHOICE
00008EAF	R-MEN\$GT_FTMPROMPT
00008ECC	R-MEN\$GT_TMTITLE
00008EE6	R-MEN\$GT_TMENU_SELECTION
00008F07	R-MEN\$GT_TMENU_TSTALL
00008F42	R-MEN\$GT_TM_CHOICE
00008F99	R-MEN\$GT_TMPROMPT
00008FB6	R-MEN\$GT_TM_MSG
00008FEE	R-MEN\$GT_PRESS_RETURN_TM
0000900C	R-MEN\$GT_CNTLCL_MENU_TITLE
00009039	R-MEN\$GT_CNTLCL_MENU_SELECTION
0000904D	R-MEN\$GT_CNTLCL_SEL_CONTINUE
00009079	R-MEN\$GT_CNTLCL_SEL_FTMENU
000090B0	R-MEN\$GT_CNTLCL_CHOICE
000090F8	R-MEN\$GT_CNTLCL_MENU_PROMPT
0000911E	R-MEN\$GT_CNTLCL_CONTINUEING
00009143	R-MEN\$GT_TSTCLA_CPU
0000914D	R-MEN\$GT_TSTCLA_MEMORY
00009157	R-MEN\$GT_TSTCLA_DISK
00009161	R-MEN\$GT_TSTCLA_TAPE
0000916B	R-MEN\$GT_TSTCLA_COMM
00009175	R-MEN\$GT_TSTCLA_REAL
0000917F	R-MEN\$GT_TSTCLA_TERM
00009189	R-MEN\$GT_TSTCLA_PRINTER
00009193	R-MEN\$GT_TSTCLA_CARD
0000919D	R-MEN\$GT_TSTCLA_LOADAP
000091A7	R-MEN\$GT_TSTCLA_ALL
000091B1	R-MEN\$GT_SYSHDWR_TITLE
0000921D	R-MEN\$GT_SYSTEM_HDWR_TEXT
0000922F	R-MEN\$GT_SUPPORTED
00009239	R-MEN\$GT_NOSUPPORT
00009244	R-MEN\$GT_END_OF_LIST
00009258	R-MEN\$GT_CTRLCL_FNCTST
000092BC	R-MEN\$GT_FUNCTEST_BEGIN
000092EB	R-MEN\$GT_RUNTIME_TOTAL
00009315	R-MEN\$GT_FNCTST_CMPL_NOERR

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Value	Symbols...
0000933F	R-MEN\$GT_FNCTST_INCMPL_ERR
0000936B	R-MEN\$GT_FNCTST_CMPL_ERR
00009395	R-MEN\$GT_FNCTST_INCMPL_NOERR
000093B8	R-MEN\$GT_ASSISTANCE_MSG
000093EA	R-MEN\$GT_MENUTEST_ABORTED
0000940B	R-MEN\$GT_OPERATOR_ABORT
00009438	R-MEN\$GT_OPERATOR_STOP
00009465	R-MEN\$GT_FNCTST_TESTSTRT_TEXT
000094A0	R-MEN\$GT_NULL
000094A1	R-MEN\$GT_CALL_FLDSRV
000094BC	R-MEN\$GT_INVOPERINPUT
000094E3	R-MEN\$GT_FAILED_HDWR_NAME
00009505	R-MEN\$GT_PREP_ERROR_TEXT
00009556	R-MEN\$GT_PREP_ERROR_TEXT_NO_USER
00009594	R-MEN\$GT_FAILED_ONL_AUTOSIZER
000095C0	R-MEN\$GT_SCRMEDIA_MSG
0000966F	R-MEN\$GT_SCRMEDIA_HDWR
0000968D	R-MEN\$GT_SCRMEDIA_HDWR_END
00009695	R-MEN\$GT_SCRMEDIA_PROMPT
000096D1	R-MEN\$GT_NOALL_NONPGMEM
000096F3	R-MEN\$GT_SUPPORT_FILE_NOT_FOUND
0000973B	R-MEN\$GT_SUPPORT_FILE_LOAD_ERR
00009789	R-MEN\$GT_DEVTSTPREP_NAME
0000979C	R-MEN\$GT_DEVTSTPREP_TEXT
000097AC	R-MEN\$GT_DEVTSTPREP_NULL
000097D8	R-MEN\$GT_DEVTSTPREP_1
000098A9	R-MEN\$GT_DEVTSTPREP_2
00009914	R-MEN\$GT_DEVTSTPREP_3
000099DC	R-MEN\$GT_DEVTSTPREP_4
00009A5D	R-MEN\$GT_DEVTSTPREP_5
00009ADA	R-MEN\$GT_DEVTSTPREP_6
00009B9A	R-MEN\$GT_DEVTSTPREP_7
00009BDD	R-CRD\$GT_AUTOSIZER_NAME
00009BE3	R-CRD\$GT_AUTOSIZER_SET_FLAGS
00009E6C	R-CRD\$GW_STATE_TABLE
0000BBE8	R-CRD\$GAW_MM_STATE_TABLE
0000C7C8	R-CRD\$GAW_TQ_STATE_TABLE
0000CDB8	R-CRD\$GAW_HS_STATE_TABLE
0000DB52	R-MEN\$GT_MENFUNCSUP_FILE
0000DB5C	R-MEN\$GT_FILE_DEFAULT
0000E65C	R-CRD\$GA_CURRENT_DIAGNOSTIC
0000E660	R-CRD\$GA_FIRST_DIAGNOSTIC
0000E664	R-CRD\$GL_CURRENT_GENERAL_COM
0000E668	R-CRD\$GB_BASE_SYSTEM
0000E66C	R-CRD\$GA_HDWR_SPRT_TABLE
0000E670	R-CRD\$AL_IDC_HDWR_SPRT_TABLE
0000E710	R-CRD\$AL_LESI_HDWR_SPRT_TABLE
0000E770	R-CRD\$AL_UDA_0_HDWR_SPRT_TABLE
0000E7F0	R-CRD\$AL_UDA_1_HDWR_SPRT_TABLE
0000E890	R-CRD\$AL_UDA_2_HDWR_SPRT_TABLE

Value	Symbols...
0000E910	R-CRD\$AL_UDA_3_HDWR_SPRT_TABLE
0000E9B0	R-CRD\$GT_WHICH_CRD
0000E9B4	R-CRD\$GL_SAVED_DSA_FLAGS
0000EA4C	R-CRD\$GB_USER_PROMPT_OKAY
0000EA68	R-CRD\$GA_CRD_MESSAGE_BUFFER
0000EB84	R-CRD\$GA_REC_BUF
0000EBF8	R-CRD\$GA_FILE_FAB
0000EC48	R-CRD\$GA_FILE_RAB
0000ED6C	R-CRD\$GL_CURRENT_TYPECODE
0000ED70	R-CRD\$GL_CURRENT_STATE
0000ED74	R-CRD\$GL_CURRENT_ACTION
0000ED7C	R-CRD\$GB_AUTO_TO_MENU_OFF
0000ED80	R-CRD\$GL_CRD_DEBUG_VECTOR
0000EE08	R-MEN\$GT_OPERINPUT_BUFFER
0000EF08	R-MEN\$GA_FTMTBL
0000EF28	R-MEN\$GA_TMTBL
0000EF40	R-MEN\$GA_PREPTBL
0000EF6C	R-CRD\$GL_PREVIOUS_STATE
0000EF70	R-CRD\$GL_MM_CURRENT_STATE
0000EF74	R-CRD\$GL_TQ_CURRENT_STATE
0000EF78	R-CRD\$GL_HS_CURRENT_STATE
0000EF7C	R-CRD\$GL_TQ_CURRENT_TQ_ENTRY
0000EF80	R-CRD\$GA_HS_CURRENT_DDB_PTR
0000EF84	R-CRD\$GA_HS_CURRENT_HSB_PTR
0000EF88	R-CRD\$GL_HS_CURRENT_HSB_NUMB
0000EF8C	R-CRD\$GB_CURRENT_STATE_TABLE
0000F090	R-MEN\$GA_DDB_HEAD
0000F098	R-MEN\$GA_FUNCUP_DATABASE
0000F0A8	R-MEN\$GA_TEST_QUEUE
0000F0B4	R-MEN\$GB_FNCT\$T_INIT
0000F0B5	R-MEN\$GB_TEST_IN_PROGRESS
0000F0CC	R-LIB\$SPAWN
0000F23C	R-LIB\$ANALYZE_SDESC
0000F251	R-LIB\$ANALYZE_SDESC_R2
00010010	DS\$ENDPASS
00010018	DS\$GPHARD
00010020	DS\$ABORT
00010028	DS\$SUMMARY
00010030	DS\$BGNSUB
00010038	DS\$ENDSUB
00010040	DS\$CKLOOP
00010048	DS\$INLOOP
00010050	DS\$ESCAPE
00010058	DS\$BREAK
00010060	DS\$WAITMS
00010068	DS\$WAITUS
00010070	DS\$CANWAIT
00010078	DS\$CNTRLC
00010080	DS\$ASKDATA
00010088	DS\$ASKVLD

Value

Symbols...

00010090	DS\$ASKADR
00010098	DS\$ASKLGCL
000100A0	DS\$ASKSTR
000100A8	DS\$BRANCH
000100B0	DS\$CVTREG
000100B8	DS\$PARSE
000100C0	DS\$ERRSYS
000100C8	DS\$ERRDEV
000100D0	DS\$ERRHARD
000100D8	DS\$ERRSOFT
000100E0	DS\$PRINTB
000100E8	DS\$PRINTX
000100F0	DS\$PRINTF
000100F8	DS\$PRINTS
00010100	DS\$PRINTSIG
00010108	DS\$ERRPREP
00010110	DS\$SETPRIEXV
00010118	DS\$MAPDBGBLOCK
00010120	DS\$GETBUF
00010128	DS\$RELBUF
00010150	DS\$MMON
00010158	DS\$MMOFF
00010160	DS\$SETVEC
00010168	DS\$CLRVEC
00010170	DS\$INITSCB
00010178	DS\$SETIPL
00010180	DS\$CHANNEL
00010188	DS\$SETMAP
00010190	DS\$SHOCHAN
00010198	DS\$LOAD
000101A0	DS\$PROBE
000101A8	DS\$ATTACH
000101B0	DS\$HELP
000101B8	DS\$FREEDBGSYM
000101C0	DS\$LOADPCS
000101C8	DS\$GETTERM
000101D0	DS\$SERVICE_DISPATCHER
000101D8	DS\$MEMSIZE
00010200	SYSS\$QIOW
00010238	SYSS\$ALLOC
00010248	SYSS\$ASCTIM
00010250	SYSS\$ASSIGN
00010258	SYSS\$BINTIM
00010260	SYSS\$CANCEL
00010268	SYSS\$CANTIM
00010298	SYSS\$CLREF
000102D8	SYSS\$DALLOC
000102E0	SYSS\$DASSGN
00010350	SYSS\$FAO
00010358	SYSS\$FAOL

Value	Symbols...
-----	-----
00010378	SYS\$GETTIM
00010380	SYS\$GTCHAN
000103A0	SYS\$LKWSET
000103B8	SYS\$NUMTIM
000103C8	SYS\$QIO
000103D0	SYS\$READEF
000103F8	SYS\$SETAST
00010400	SYS\$SETEF
00010420	SYS\$SETIMR
00010428	SYS\$SETPRI
00010430	SYS\$SETPRT
00010438	SYS\$SETRWN
00010460	SYS\$ULKPAG
00010468	SYS\$ULWSET
00010470	SYS\$UNWIND
00010478	SYS\$WAITFR
00010488	SYS\$WFLAND
00010490	SYS\$WFLOR
000104C8	SYS\$GETCHN
00010580	SYS\$GET
00010590	SYS\$READ
000105B8	SYS\$CLOSE
000105C0	SYS\$CONNECT
000105D0	SYS\$DISCONNECT
00010608	SYS\$OPEN
00158224	LIB\$_INVSTRDES
00158234	LIB\$_INVARG
0015837C	LIB\$_NOCLI
7FFFE18	SYS\$CLI
7FFFE1B0	SYS\$WRITE
7FFFE1E0	SYS\$ERASE

Key for special characters above:

!	*	-	Undefined	!
!	U	-	Universal	!
!	R	-	Relocatable	!
!	X	-	External	!

! Image Synopsis !

Virtual memory allocated: 00000000 0000F3FF 0000F400 (62464. bytes, 122. pages)
Stack size: 0. pages
Image binary virtual block limits: 1. 122. (122. blocks)
Image name and identification: ENSAB NONE
Number of files: 26.
Number of modules: 30.
Number of program sections: 12.
Number of global symbols: 431.
Number of cross references: 1316.
Number of image sections: 1.
Image type: SYSTEM.
Map format: FULL WITH CROSS REFERENCE in file DISK\$DIAGPACK03:[DS.CRD.V020]ENSAB.MAP;1
Estimated map length: 155. blocks

! Link Run Statistics !

Performance Indicators	Page Faults	CPU Time	Elapsed Time
Command processing:	290	00:00:02.01	00:00:02.84
Pass 1:	399	00:00:04.60	00:00:11.88
Allocation/Relocation:	52	00:00:00.28	00:00:00.92
Pass 2:	193	00:00:04.49	00:00:12.68
Map data after object module synopsis:	9	00:00:02.27	00:00:02.57
Symbol table output:	0	00:00:00.00	00:00:00.13
Total run values:	943	00:00:13.65	00:00:31.02

Using a working set limited to 2048 pages and 112 pages of data storage (excluding image)

Total number object records read (both passes): 8990
of which 53 were in libraries and 3474 were DEBUG data records containing 773100 bytes

Number of modules extracted explicitly = 0
with 5 extracted to resolve undefined symbols

0 library searches were for symbols not in the library searched

A total of 0 global symbol table records was written

LINK BUILD_CRD.OPT/OPTIONS/MAP-ENSAB.MAP/CROSS/FULL/NOSYSSHR/SYSTEM=XX0000/CONTIGUOUS/EXE=ENSAB.EXE

CRDACT1.OBJ -
.CRDACT2.OBJ -
.CRDCTRLC.OBJ -
.CRDDDB.OBJ -
.CRDGENCOM.OBJ -
.CRDHDWSUP.OBJ -
.CRDHSACT.OBJ -
.CRDINIT.OBJ -
.CRDINTRFC.OBJ -

ZZ-ENSAB-2.0 Map
DISK\$DIAGPACK03:(DS.CRD.V020)ENSAB.EXE;1

G 9

19-SEP-1985 17:27 Fiche 1 Frame G9 Sequence 110
VAX-11 Linker V04-00

Page 26

.CRDTEXT.OBJ -
.CRDMMACT.OBJ -
.CRDPTABLE.OBJ -
.CRDSTATE.OBJ -
.CRDSTOP.OBJ -
.CRDTQACT.OBJ -
.CRDTYPCOD.OBJ -
.CRDVECS.OBJ -
.MENCNTLC.OBJ -
.MENGOA.OBJ -
.MENPROMPT.OBJ -
.MENSTATE.OBJ -
.MENTST.OBJ
.MENTSTINI.OBJ
.MENTSTQ.OBJ -
.MENTURING.OBJ

```
: 0001 0
: 0002 0 xTITLE 'CRD MENU - Functional Test Support'
: 0003 0 MODULE EVLAA (
: 0004 0 IDENT = 'V020'
: 0005 0 ) =
: 0006 0 !
: 0007 0 ! COPYRIGHT (C) 1985
: 0008 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0009 0 !
: 0010 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0011 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0012 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0013 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0014 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0015 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0016 0 ! REMAIN IN DEC.
: 0017 0 !
: 0018 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0019 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0020 0 ! CORPORATION.
: 0021 0 !
: 0022 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0023 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0024 0 !
```

```

: 0025 0 !*
: 0026 0 ! FACILITY:
: 0027 0 !
: 0028 0 ! ABSTRACT:
: 0029 0 ! *
: 0030 0 !   This source causes a device support data base to be built.
: 0031 0 !
: 0032 0 ! ENVIRONMENT:
: 0033 0 !
: 0034 0 ! AUTHOR:
: 0035 0 !
: 0036 0 !   John Ciukaj May-1982 Version 1
: 0037 0 !
: 0038 0 !   Compatible with CRD MACRO Package
: 0039 0 !   Version 1.10 (ENSAB.EXE CRD Loadable Image)
: 0040 0 !   which incorporated the initial release of VAX-11/730,725
: 0041 0 !   MENU TEST.
: 0042 0 !
: 0043 0 ! Modified by:
: 0044 0 !
: 0045 0 ! [01] John Ciukaj Jan. 1983
: 0046 0 !   - Corrected version 1.0 description of this
: 0047 0 !   module from referencing CRD Macro Pkg. version 2.0
: 0048 0 !   to version 1.1
: 0049 0 !   Added device support:
: 0050 0 !   RA80, RA81, RA60, DZ32, DUP11, TU80, RK711
: 0051 0 !
: 0052 0 ! [02] Scott Cohen Version 1.3 13-Jul-1983
: 0053 0 !   - Added device support:
: 0054 0 !   RC25, RCF25
: 0055 0 !
: 0056 0 ! [03] Scott Cohen Release 15 8-Sep-1983
: 0057 0 !   - Added device support:
: 0058 0 !   VS125, TS05
: 0059 0 !   - Modified device support:
: 0060 0 !   RC25, RCF25
: 0061 0 !
: 0062 0 ! [04] Ron Parker Release 18 18-JUN-1984
: 0063 0 !   - Enhanced definition explanations
: 0064 0 !   - Added device support:
: 0065 0 !   VS100, UNA11
: 0066 0 !   - Commented out VS125 code
: 0067 0 !
: 0068 0 ! [05] Ron Parker Release 20 10-OCT-1984
: 0069 0 !   - Added RUX50 devices, RX31,RX32,RX50,Rx180
: 0070 0 !
: 0071 0 ! [06] Ron Parker 25-JAN-1985
: 0072 0 !   - Added Support block diagnostic level field to
: 0073 0 !   determine online versus offline items.
: 0074 0 ! --
: 0075 0 !
: 0076 0 !
: 0077 0 !

```

```

: 0078 0 xSBTTL 'Libraries'
: 0079 1 BEGIN
: 0080 1
: 0081 1
: 0082 1 LIBRARY '$CRD';
: 0083 1 LIBRARY 'SYS$LIBRARY:LIB';
: 0084 1
: 0085 1 xSBTTL 'Literals'
: 0086 1
: 0087 1 !
: 0088 1 $CRD_Literals;
: 0089 1 $MEN_Literals;
: 0090 1 !
: 0091 1
: 0092 1 xSBTTL 'Notes'
: 0093 1
: 0094 1 ! The Diagnostic level word indicates whether or not the current
: 0095 1 ! block being defined contains offline or online diagnostics respectively.
: 0096 1 ! This means level 3 is offline, and 2R is online. Level 2 diagnostics must
: 0097 1 ! be put in one or both categories, level 3 and/or 2R. Level 2 will be
: 0098 1 ! interpreted as 2R, so be careful.
: 0099 1 !
: 0100 1 ! Support Block Status Bits. $MEN_SupBlk_FLD defines the bit field.
: 0101 1 ! Status_supblk<0,1,0> = Support Block Invalid bit.
: 0102 1 ! Specifies whether CRD MENU considers the support block invalid.
: 0103 1 ! Valid = 0 or False, Invalid = non-0 or True

```



```

: 0104 1 xSBTTL 'Device Data structure'
: 0105 1
: 0106 1 The data structure consists of a pointer block (MEN$GA_FUNC_DATABASE) at
: 0107 1 the top of the structure. Next the Support blocks which may have one or
: 0108 1 more Test_configuration_blocks following. The test_configuration_blocks
: 0109 1 have one or more concatenated diagnostic_blocks following them.
: 0110 1
: 0111 1 MEN$GA_FUNC$UP_DATABASE block:
: 0112 1 .LONG Number of bytes in the database
: 0113 1 .LONG Pointer to the start of the database, first support_block
: 0114 1
: 0115 1 From this point on the database is one contiguous block consisting of:
: 0116 1
: 0117 1 Support_block:
: 0118 1 .LONG Number of longwords in block
: 0119 1 .ASCII The device name string (up to 11 char)
: 0120 1 .BYTE Test_category, see $MEN_literals in CRD.R32 for list
: 0121 1 .BYTE Test_class, see $MEN_literals in CRD.R32 for list
: 0122 1 .BYTE Number of test_configuration_blocks in this support_block
: 0123 1 .WORD Support_indicator, TRUE/FALSE
: 0124 1 .WORD Diagnostic_level, two characters
: 0125 1
: 0126 1 Test_configuration_block:
: 0127 1 .BYTE Device_test_preparation_code, see $MEN_literals in CRD.R32
: 0128 1 .BYTE Number of concatenated Diagnostic_blocks
: 0129 1 .WORD Test_configuration_block_status_bits, see $MEN_TSTCNFG_FLD
: 0130 1
: 0131 1 Diagnostic_block:
: 0132 1 .WORD Length of block
: 0133 1 .ASCII \Diagnostic_name\
: 0134 1 .ASCII \Set_flags_args\
: 0135 1 .ASCII \Set_event_args\
: 0136 1 .ASCII \Start_qualifiers\
: 0137 1 .ASCII \Test_start_text\
: 0138 1 .ASCII \Run_time\
: 0139 1
: 0140 1 Example structure in PDL
: 0141 1
: 0142 1 Begin_database_block
: 0143 1 Support_block
: 0144 1 Test_cnfg_block
: 0145 1 Diagnostic_block
: 0146 1
: 0147 1
: 0148 1 Diagnostic_block
: 0149 1 Support_block
: 0150 1 Test_cnfg_block
: 0151 1 Diagnostic_block
: 0152 1 Support_block
: 0153 1 Test_cnfg_block
: 0154 1 Diagnostic_block
: 0155 1 End_database_block
: 0156 1

```

```

: 0157 1 xSBTTL 'Data Structure building MACROs'
: 0158 1
: 0159 1 KEYWORDMACRO
: M 0160 1 SUPPORT_DBASE_ID ( Version ) =
: M 0161 1
: M 0162 1 Psect plit=xName('$$$');
: M 0163 1 GLOBAL BIND
: M 0164 1 xNAME('CRD$GA_Support_DBase_ID')=
: M 0165 1
: M 0166 1 Plit Byte (
: M 0167 1 xIF xCHARCOUNT(Version) GTR 8
: M 0168 1 xTHEN
: M 0169 1 xERRORMACRO ('Version number character count exceeded')
: M 0170 1 xFI
: M 0171 1 byte (xASCIC xSTRING(xexactstring(19, xC' ', 'Version = ', Version)))
: 0172 1 );
: 0173 1
: 0174 1 KEYWORDMACRO
: 0175 1
: 0176 1 !+
: 0177 1 ! This macro builds a SUPPORT block header
: 0178 1 !-
: 0179 1
: 0180 1 INIT_SUPBLK_HEAD ( Device_Name,
: 0181 1 Test_Category,
: 0182 1 Test_Class,
: 0183 1 Testcnfg_No,
: 0184 1 Status_Supblk_Invalid = False,
: 0185 1 Diagnostic_Level
: M 0186 1 ) =
: M 0187 1
: M 0188 1 Psect plit=xName('$$',Device_Name);
: M 0189 1 GLOBAL BIND
: M 0190 1 xNAME('CRD$GA_Supblk_L',
: M 0191 1 xSTRING(xexactstring(2,xC' ',Diagnostic_Level)),
: M 0192 1 ',
: M 0193 1 Device_Name)=
: M 0194 1
: M 0195 1 Plit Byte (
: M 0196 1
: M 0197 1 byte (xASCIC xSTRING(xexactstring(11,xC' ',Device_Name))),
: M 0198 1 byte (Test_Category),
: M 0199 1 byte (Test_Class),
: M 0200 1 byte (Testcnfg_No),
: M 0201 1 word ( (Status_Supblk_Invalid ^ 0 ) AND 1 ),
: M 0202 1 word ( xASCII xSTRING(xEXACTSTRING(2, xC' ',Diagnostic_Level)))! [06]
: 0203 1 x,

```

```

; 0204 1 !+
; 0205 1 ! This macro builds a TEST_CONFIGURATION block
; 0206 1 !-
; 0207 1
; 0208 1 INIT_TSTCNFG_BLK ( DevTstPrep_Code,
; 0209 1 Diagblk_No,
; M 0210 1 Status_Scratch_Media = False ) =
; M 0211 1
; M 0212 1 byte (DevTstPrep_Code),
; M 0213 1 byte (Diagblk_no),
; M 0214 1
; M 0215 1 !+
; M 0216 1 ! Test Configuration Block Status bits. $MEN_TstCnfg_FLD defines
; M 0217 1 ! the bit field. The scratch media bit indicates that the hardware
; M 0218 1 ! requires scratch media. (Must not contain useable data).
; M 0219 1 !-
; M 0220 1
; M 0221 1 word ( (Status_Scratch_Media AND 1) ^ 0 ) ! Define the status word
; 0222 1 x,
; 0223 1
; 0224 1 !+
; 0225 1 ! This macro builds a DIAGNOSTIC block
; 0226 1 !-
; 0227 1
; 0228 1 INIT_DIAGBLK ( Diagnostic_Name,
; 0229 1 Set_Flags_Args,
; 0230 1 Set_Event_Args,
; 0231 1 Start_Qualifiers,
; 0232 1 Test_Start_Text,
; M 0233 1 RunTime ) = ! [06]
; M 0234 1 word (xLength),
; M 0235 1 byte (xascic xstring(Diagnostic_Name)),
; M 0236 1 byte (xascic xstring(Set_Flags_Args)),
; M 0237 1 byte (xascic xstring(Set_Event_Args)),
; M 0238 1 byte (xascic xstring(Start_Qualifiers)),
; M 0239 1 byte (xascic xstring(Test_Start_Text)),
; M 0240 1 byte (xascic xstring(RunTime))
; 0241 1 x,
; 0242 1
; 0243 1 !+
; 0244 1 ! This macro just terminates the support block
; 0245 1 !-
; 0246 1
; M 0247 1 SUPBLK_END =
; M 0248 1 )
; 0249 1 x;
; 0250 1
; 0251 1
; 0252 1

```

• • • • •

```

;      0253 1  *SBTTL 'Support Data Base ID Block'
;      0254 1
; P    0255 1  SUPPORT_DBASE_ID
; P    0256 1
;      0257 1  (Version = ' V02.0');

```

```

; 0258 1 xSBTTL 'KA730 Offline Support Block'
; 0259 1
; P 0260 1 INIT_SUPBLK_HEAD
; P 0261 1 (
; P 0262 1 Device_Name = KA730,
; P 0263 1 Test_Category = MEN$K_Tstctg_CPU,
; P 0264 1 Test_Class = MEN$K_Tstcla_CPU,
; P 0265 1 Testcnfg_No = 1,
; P 0266 1 Diagnostic_Level = '3'
; 0267 1 ),
; P 0268 1 INIT_TSTCNFG_BLK
; P 0269 1 (
; P 0270 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 0271 1 Diagblk_No = 5
; 0272 1 ),
; P 0273 1 INIT_DIAGBLK
; P 0274 1 (
; P 0275 1 Diagnostic_Name = ENKAX,
; P 0276 1 Set_Flags_Args = 'QUICK',
; P 0277 1 Set_Event_Args = '',
; P 0278 1 Start_Qualifiers = '',
; P 0279 1 Test_Start_Text = 'PART 1',
; P 0280 1 RunTime = '00:45'
; 0281 1 ),
; P 0282 1 INIT_DIAGBLK
; P 0283 1 (
; P 0284 1 Diagnostic_Name = EVKAB,
; P 0285 1 Set_Flags_Args = 'QUICK',
; P 0286 1 Set_Event_Args = '',
; P 0287 1 Start_Qualifiers = '',
; P 0288 1 Test_Start_Text = 'PART 2',
; P 0289 1 RunTime = '02:00'
; 0290 1 ),
; P 0291 1 INIT_DIAGBLK
; P 0292 1 (
; P 0293 1 Diagnostic_Name = EVKAC,
; P 0294 1 Set_Flags_Args = 'QUICK',
; P 0295 1 Set_Event_Args = '',
; P 0296 1 Start_Qualifiers = '',
; P 0297 1 Test_Start_Text = 'PART 3',
; P 0298 1 RunTime = '03:00'
; 0299 1 ),
; P 0300 1 INIT_DIAGBLK
; P 0301 1 (
; P 0302 1 Diagnostic_Name = EVKAD,
; P 0303 1 Set_Flags_Args = 'QUICK',
; P 0304 1 Set_Event_Args = '',
; P 0305 1 Start_Qualifiers = '',
; P 0306 1 Test_Start_Text = 'PART 4',
; P 0307 1 RunTime = '02:45'
; 0308 1 ),
; P 0309 1 INIT_DIAGBLK
; P 0310 1 (
; P 0311 1 Diagnostic_Name = EVKAE,
; P 0312 1 Set_Flags_Args = 'QUICK',

```

```
: P 0313 1 Set_Event_Args = ''  
: P 0314 1 Start_Qualifiers = ''  
: P 0315 1 Test_Start_Text = 'PART 5',  
: P 0316 1 RunTime = '02:00'  
: 0317 1 )  
: 0318 1 SUPBLK_END;  
: 0319 1
```

```

; 0320 1 xSBTTL 'KA750 Offline Support Block'
; 0321 1
; P 0322 1 INIT_SUPBLK_HEAD
; P 0323 1 (
; P 0324 1 Device_Name = KA750,
; P 0325 1 Test_Category = MEN$K_Tstctg_CPU,
; P 0326 1 Test_Class = MEN$K_Tstcla_CPU,
; P 0327 1 Testcnfg_No = 1,
; P 0328 1 Diagnostic_Level = '3'
; 0329 1 )
; P 0330 1 INIT_TSTCNFG_BLK
; P 0331 1 (
; P 0332 1 DevTstPrep_Code = MEN$K_DevTstPrep Null,
; P 0333 1 Diagblk_No = 4
; 0334 1 )
; P 0335 1 INIT_DIAGBLK
; P 0336 1 (
; P 0337 1 Diagnostic_Name = EVKAB,
; P 0338 1 Set_Flags_Args = 'QUICK',
; P 0339 1 Set_Event_Args = '',
; P 0340 1 Start_Qualifiers = '',
; P 0341 1 Test_Start_Text = 'PART 1',
; P 0342 1 RunTime = '02:00'
; 0343 1 )
; P 0344 1 INIT_DIAGBLK
; P 0345 1 (
; P 0346 1 Diagnostic_Name = EVKAC,
; P 0347 1 Set_Flags_Args = 'QUICK',
; P 0348 1 Set_Event_Args = '',
; P 0349 1 Start_Qualifiers = '',
; P 0350 1 Test_Start_Text = 'PART 2',
; P 0351 1 RunTime = '03:00'
; 0352 1 )
; P 0353 1 INIT_DIAGBLK
; P 0354 1 (
; P 0355 1 Diagnostic_Name = EVKAD,
; P 0356 1 Set_Flags_Args = 'QUICK',
; P 0357 1 Set_Event_Args = '',
; P 0358 1 Start_Qualifiers = '',
; P 0359 1 Test_Start_Text = 'PART 3',
; P 0360 1 RunTime = '02:45'
; 0361 1 )
; P 0362 1 INIT_DIAGBLK
; P 0363 1 (
; P 0364 1 Diagnostic_Name = EVKAE,
; P 0365 1 Set_Flags_Args = 'QUICK',
; P 0366 1 Set_Event_Args = '',
; P 0367 1 Start_Qualifiers = '',
; P 0368 1 Test_Start_Text = 'PART 4',
; P 0369 1 RunTime = '02:00'
; 0370 1 )
; 0371 1 SUPBLK_END;
; 0372 1

```

```
: 0373 1 xSBTTL 'KA780 Offline Support Block'
: 0374 1
: P 0375 1 INIT_SUPBLK_HEAD
: P 0376 1 (
: P 0377 1 Device_Name = KA780,
: P 0378 1 Test_Category = MEN$K_Tstctg_CPU,
: P 0379 1 Test_Class = MEN$K_Tstcla_CPU,
: P 0380 1 Testcnfg_No = 1,
: P 0381 1 Diagnostic_Level = '3'
: 0382 1 )
: P 0383 1 INIT_TSTCNFG_BLK
: P 0384 1 (
: P 0385 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0386 1 Diagblk_No = 4
: 0387 1 )
: P 0388 1 INIT_DIAGBLK
: P 0389 1 (
: P 0390 1 Diagnostic_Name = EVKAB,
: P 0391 1 Set_Flags_Args = 'QUICK',
: P 0392 1 Set_Event_Args = '',
: P 0393 1 Start_Qualifiers = '',
: P 0394 1 Test_Start_Text = 'PART 1',
: P 0395 1 RunTime = '02:00'
: 0396 1 )
: P 0397 1 INIT_DIAGBLK
: P 0398 1 (
: P 0399 1 Diagnostic_Name = EVKAC,
: P 0400 1 Set_Flags_Args = 'QUICK',
: P 0401 1 Set_Event_Args = '',
: P 0402 1 Start_Qualifiers = '',
: P 0403 1 Test_Start_Text = 'PART 2',
: P 0404 1 RunTime = '03:00'
: 0405 1 )
: P 0406 1 INIT_DIAGBLK
: P 0407 1 (
: P 0408 1 Diagnostic_Name = EVKAD,
: P 0409 1 Set_Flags_Args = 'QUICK',
: P 0410 1 Set_Event_Args = '',
: P 0411 1 Start_Qualifiers = '',
: P 0412 1 Test_Start_Text = 'PART 3',
: P 0413 1 RunTime = '02:45'
: 0414 1 )
: P 0415 1 INIT_DIAGBLK
: P 0416 1 (
: P 0417 1 Diagnostic_Name = EVKAE,
: P 0418 1 Set_Flags_Args = 'QUICK',
: P 0419 1 Set_Event_Args = '',
: P 0420 1 Start_Qualifiers = '',
: P 0421 1 Test_Start_Text = 'PART 4',
: P 0422 1 RunTime = '02:00'
: 0423 1 )
: 0424 1 SUPBLK_END;
: 0425 1
```



```

: 0426 1 xSBTTL 'KA820 Offline Support Block'
: 0427 1
: P 0428 1 INIT_SUPBLK_HEAD
: P 0429 1 (
: P 0430 1 Device_Name = KA820,
: P 0431 1 Test_Category = MEN$K_Tstctg_CPU,
: P 0432 1 Test_Class = MEN$K_Tstcla_CPU,
: P 0433 1 Testcnfg_No = 1,
: P 0434 1 Diagnostic_Level = '3'
: 0435 1 )
: P 0436 1 INIT_TSTCNFG_BLK
: P 0437 1 (
: P 0438 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0439 1 Diagblk_No = 3
: 0440 1 )
: P 0441 1 INIT_DIAGBLK
: P 0442 1 (
: P 0443 1 Diagnostic_Name = EVKAB,
: P 0444 1 Set_Flags_Args = 'QUICK',
: P 0445 1 Set_Event_Args = '',
: P 0446 1 Start_Qualifiers = '',
: P 0447 1 Test_Start_Text = 'PART 1',
: P 0448 1 RunTime = '02:00'
: 0449 1 )
: P 0450 1 INIT_DIAGBLK
: P 0451 1 (
: P 0452 1 Diagnostic_Name = EVKAC,
: P 0453 1 Set_Flags_Args = 'QUICK',
: P 0454 1 Set_Event_Args = '',
: P 0455 1 Start_Qualifiers = '',
: P 0456 1 Test_Start_Text = 'PART 2',
: P 0457 1 RunTime = '03:00'
: 0458 1 )
: P 0459 1 INIT_DIAGBLK
: P 0460 1 (
: P 0461 1 Diagnostic_Name = EVKAE,
: P 0462 1 Set_Flags_Args = 'QUICK',
: P 0463 1 Set_Event_Args = '',
: P 0464 1 Start_Qualifiers = '',
: P 0465 1 Test_Start_Text = 'PART 3',
: P 0466 1 RunTime = '02:00'
: 0467 1 )
: 0468 1 SUPBLK_END;
: 0469 1

```

```

: 0470 : xSBTTL 'KA86 Offline Support Block'
: 0471 :
: P 0472 : INIT_SUPBLK_HEAD
: P 0473 : (
: P 0474 :   Device_Name = KA86,
: P 0475 :   Test_Category = MEN$K_Tstctg_CPU,
: P 0476 :   Test_Class = MEN$K_Tstcla_CPU,
: P 0477 :   Testcnfg_No = 1,
: P 0478 :   Diagnostic_Level = '3'
: 0479 : ),
: P 0480 : INIT_TSTCNFG_BLK
: P 0481 : (
: P 0482 :   DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0483 :   Diagblk_No = 4
: 0484 : ),
: P 0485 : INIT_DIAGBLK
: P 0486 : (
: P 0487 :   Diagnostic_Name = EVKAB,
: P 0488 :   Set_Flags_Args = 'QUICK',
: P 0489 :   Set_Event_Args = '',
: P 0490 :   Start_Qualifiers = '',
: P 0491 :   Test_Start_Text = 'PART 1',
: P 0492 :   RunTime = '02:00'
: 0493 : ),
: P 0494 : INIT_DIAGBLK
: P 0495 : (
: P 0496 :   Diagnostic_Name = EVKAC,
: P 0497 :   Set_Flags_Args = 'QUICK',
: P 0498 :   Set_Event_Args = '',
: P 0499 :   Start_Qualifiers = '',
: P 0500 :   Test_Start_Text = 'PART 2',
: P 0501 :   RunTime = '03:00'
: 0502 : ),
: P 0503 : INIT_DIAGBLK
: P 0504 : (
: P 0505 :   Diagnostic_Name = EVKAD,
: P 0506 :   Set_Flags_Args = 'QUICK',
: P 0507 :   Set_Event_Args = '',
: P 0508 :   Start_Qualifiers = '',
: P 0509 :   Test_Start_Text = 'PART 3',
: P 0510 :   RunTime = '02:45'
: 0511 : ),
: P 0512 : INIT_DIAGBLK
: P 0513 : (
: P 0514 :   Diagnostic_Name = EVKAE,
: P 0515 :   Set_Flags_Args = 'QUICK',
: P 0516 :   Set_Event_Args = '',
: P 0517 :   Start_Qualifiers = '',
: P 0518 :   Test_Start_Text = 'PART 4',
: P 0519 :   RunTime = '02:00'
: 0520 : ),
: 0521 : SUPBLK_END;
: 0522 :

```

```
; 0523 1 xSBTTL 'TS11 Offline Support Block'
; 0524 1
; P 0525 1 INIT_SUPBLK_HEAD
; P 0526 1 (
; P 0527 1 Device_Name = TS11,
; P 0528 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 0529 1 Test_Class = MEN$K_Tstcla_Tape,
; P 0530 1 Testcnfg_No = 1,
; P 0531 1 Diagnostic_Level = '3'
; 0532 1 ),
; P 0533 1 INIT_TSTCNFG_BLK
; P 0534 1 (
; P 0535 1 DevTstPrep_Code = MEN$K_DevTstPrep_3,
; P 0536 1 Diagblk_No = 1,
; P 0537 1 Status_Scratch_Media = True
; 0538 1 ),
; P 0539 1 INIT_DIAGBLK
; P 0540 1 (
; P 0541 1 Diagnostic_Name = EVMAD,
; P 0542 1 Set_Flags_Args = 'QUICK',
; P 0543 1 Set_Event_Args = '',
; P 0544 1 Start_Qualifiers = '',
; P 0545 1 Test_Start_Text = '',
; P 0546 1 RunTime = '07:30'
; 0547 1 )
; 0548 1 SUPBLK_END;
; 0549 1
; 0550 1
; 0551 1
```

```
: 0552 1
: 0553 1 xSBTTL 'TU80 Offline Support Block'
: 0554 1
: P 0555 1 INIT_SUPBLK_HEAD
: P 0556 1 (
: P 0557 1 Device_Name = TU80,
: P 0558 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 0559 1 Test_Class = MEN$K_Tstcla_Tape,
: P 0560 1 Testcnfg_No = 1,
: P 0561 1 Diagnostic_Level = '3'
: 0562 1 )
: P 0563 1 INIT_TSTCNFG_BLK
: P 0564 1 (
: P 0565 1 DevTstPrep_Code = MEN$K_DevTstPrep_3,
: P 0566 1 Diagblk_No = 2,
: P 0567 1 Status_Scratch_Media = True
: 0568 1 )
: P 0569 1 INIT_DIAGBLK
: P 0570 1 (
: P 0571 1 Diagnostic_Name = EVMBD,
: P 0572 1 Set_Flags_Args = 'QUICK',
: P 0573 1 Set_Event_Args = '',
: P 0574 1 Start_Qualifiers = '/SEC:DEFAULT',
: P 0575 1 Test_Start_Text = 'PART 1',
: P 0576 1 RunTime = '03:30'
: 0577 1 )
: P 0578 1 INIT_DIAGBLK
: P 0579 1 (
: P 0580 1 Diagnostic_Name = EVMBE,
: P 0581 1 Set_Flags_Args = 'QUICK',
: P 0582 1 Set_Event_Args = '',
: P 0583 1 Start_Qualifiers = '/SEC:CRD',
: P 0584 1 Test_Start_Text = 'PART 2',
: P 0585 1 RunTime = '03:30'
: 0586 1 )
: 0587 1 SUPBLK_END;
: 0588 1
: 0589 1
: 0590 1
```

```
: 0591 1
: 0592 1 xSBTTL 'TU81 Offline Support Block'
: 0593 1
: P 0594 1 INIT_SUPBLK_HEAD
: P 0595 1 (
: P 0596 1 Device_Name = TU81,
: P 0597 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 0598 1 Test_Class = MEN$K_Tstcla_Tape,
: P 0599 1 Testcnfg_No = 1,
: P 0600 1 Diagnostic_Level = '3'
: 0601 1 )
: P 0602 1 INIT_TSTCNFG_BLK
: P 0603 1 (
: P 0604 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0605 1 Diagblk_No = 1
: 0606 1 )
: P 0607 1 INIT_DIAGBLK
: P 0608 1 (
: P 0609 1 Diagnostic_Name = EVMBB,
: P 0610 1 Set_Flags_Args = 'QUICK',
: P 0611 1 Set_Event_Args = '',
: P 0612 1 Start_Qualifiers = '/SEC:DEFAULT',
: P 0613 1 Test_Start_Text = 'PART 1',
: P 0614 1 RunTime = '03:30'
: 0615 1 )
: 0616 1 SUPBLK_END;
: 0617 1
: 0618 1
: 0619 1
```

```

: 0620 1 *SBTTL 'RK611 Offline Support Block'
: P 0621 1 INIT_SUPBLK_HEAD
: P 0622 1 (
: P 0623 1 Device_Name = RK611,
: P 0624 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 0625 1 Test_Class = MEN$K_Tstcla_Disk,
: P 0626 1 Testcnfg_No = 1,
: P 0627 1 Diagnostic_Level = '3'
: P 0628 1 ),
: P 0629 1 INIT_TSTCNFG_BLK
: P 0630 1 (
: P 0631 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0632 1 Diagblk_No = 5
: P 0633 1 ),
: P 0634 1 INIT_DIAGBLK
: P 0635 1 (
: P 0636 1 Diagnostic_Name = EVREA,
: P 0637 1 Set_Flags_Args = 'QUICK',
: P 0638 1 Set_Event_Args = '',
: P 0639 1 Start_Qualifiers = '',
: P 0640 1 Test_Start_Text = 'PART 1',
: P 0641 1 RunTime = '00:30'
: P 0642 1 ),
: P 0643 1 INIT_DIAGBLK
: P 0644 1 (
: P 0645 1 Diagnostic_Name = EVREB,
: P 0646 1 Set_Flags_Args = 'QUICK',
: P 0647 1 Set_Event_Args = '',
: P 0648 1 Start_Qualifiers = '',
: P 0649 1 Test_Start_Text = 'PART 2',
: P 0650 1 RunTime = '01:30'
: P 0651 1 ),
: P 0652 1 INIT_DIAGBLK
: P 0653 1 (
: P 0654 1 Diagnostic_Name = EVREC,
: P 0655 1 Set_Flags_Args = 'QUICK',
: P 0656 1 Set_Event_Args = '',
: P 0657 1 Start_Qualifiers = '',
: P 0658 1 Test_Start_Text = 'PART 3',
: P 0659 1 RunTime = '01:30'
: P 0660 1 ),
: P 0661 1 INIT_DIAGBLK
: P 0662 1 (
: P 0663 1 Diagnostic_Name = EVRED,
: P 0664 1 Set_Flags_Args = 'QUICK',
: P 0665 1 Set_Event_Args = '',
: P 0666 1 Start_Qualifiers = '',
: P 0667 1 Test_Start_Text = 'PART 4',
: P 0668 1 RunTime = '00:30'
: P 0669 1 ),
: P 0670 1 INIT_DIAGBLK
: P 0671 1 (
: P 0672 1 Diagnostic_Name = EVREE,
: P 0673 1 Set_Flags_Args = 'QUICK',
: P 0674 1 Set_Event_Args = ''

```

ZZ-ENSAB-2.0 RK611 Offline Support Block L 10
EVLA CRD MENU - Functional Test Support 19-Sep-1985 17:30:53 VAX-11 Bliss-32 V4.1-746 FICHE 1 Frame L10 Sequence 128
V020 RK611 Offline Support Block 23-Jul-1985 10:46:11 [DS.CRD.V020]EVLA.B32;1 (16) Page 18

```
; P 0675 1 Start_Qualifiers = ''  
; P 0676 1 Test_Start_Text = 'PART 5'.  
; P 0677 1 RunTime = '01:45'  
; 0678 1 )  
; 0679 1 SUPBLK_END;  
; 0680 1  
; 0681 1  
; 0682 1  
; 0683 1
```

```
: 0684 1
: 0685 1 xSBTTL 'RK711 Offline Support Block'
: P 0686 1 INIT_SUPBLK_HEAD
: P 0687 1 (
: P 0688 1 Device_Name = RK711,
: P 0689 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 0690 1 Test_Class = MEN$K_Tstcla_Disk,
: P 0691 1 Testcnfg_No = 1,
: P 0692 1 Diagnostic_Level = '3'
: 0693 1 )
: P 0694 1 INIT_TSTCNFG_BLK
: P 0695 1 (
: P 0696 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0697 1 Diagblk_No = 5
: 0698 1 )
: P 0699 1 INIT_DIAGBLK
: P 0700 1 (
: P 0701 1 Diagnostic_Name = EVREA,
: P 0702 1 Set_Flags_Args = 'QUICK',
: P 0703 1 Set_Event_Args = '',
: P 0704 1 Start_Qualifiers = '',
: P 0705 1 Test_Start_Text = 'PART 1',
: P 0706 1 RunTime = '00:30'
: 0707 1 )
: P 0708 1 INIT_DIAGBLK
: P 0709 1 (
: P 0710 1 Diagnostic_Name = EVREB,
: P 0711 1 Set_Flags_Args = 'QUICK',
: P 0712 1 Set_Event_Args = '',
: P 0713 1 Start_Qualifiers = '',
: P 0714 1 Test_Start_Text = 'PART 2',
: P 0715 1 RunTime = '01:30'
: 0716 1 )
: P 0717 1 INIT_DIAGBLK
: P 0718 1 (
: P 0719 1 Diagnostic_Name = EVREC,
: P 0720 1 Set_Flags_Args = 'QUICK',
: P 0721 1 Set_Event_Args = '',
: P 0722 1 Start_Qualifiers = '',
: P 0723 1 Test_Start_Text = 'PART 3',
: P 0724 1 RunTime = '01:30'
: 0725 1 )
: P 0726 1 INIT_DIAGBLK
: P 0727 1 (
: P 0728 1 Diagnostic_Name = EVRED,
: P 0729 1 Set_Flags_Args = 'QUICK',
: P 0730 1 Set_Event_Args = '',
: P 0731 1 Start_Qualifiers = '',
: P 0732 1 Test_Start_Text = 'PART 4',
: P 0733 1 RunTime = '00:30'
: 0734 1 )
: P 0735 1 INIT_DIAGBLK
: P 0736 1 (
: P 0737 1 Diagnostic_Name = EVREE,
: P 0738 1 Set_Flags_Args = 'QUICK',
```


.....

```
; 0749 1 xSBTTL 'RK07 Offline Support Block'
; P 0750 1 INIT_SUPBLK_HEAD
; P 0751 1 (
; P 0752 1 Device_Name = RK07,
; P 0753 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 0754 1 Test_Class = MEN$K_Tstcla_Disk,
; P 0755 1 Testcnfg_No = 1,
; P 0756 1 Diagnostic_Level = '3'
; 0757 1 )
; P 0758 1 INIT_TSTCNFG_BLK
; P 0759 1 (
; P 0760 1 DevTstPrep_Code = MEN$K_DevTstPrep_1,
; P 0761 1 Diagblk_No = 1
; 0762 1 )
; P 0763 1 INIT_DIAGBLK
; P 0764 1 (
; P 0765 1 Diagnostic_Name = EVRAD,
; P 0766 1 Set_Flags_Args = 'QUICK',
; P 0767 1 Set_Event_Args = '',
; P 0768 1 Start_Qualifiers = '',
; P 0769 1 Test_Start_Text = '',
; P 0770 1 Runtime = '00:45'
; 0771 1 )
; 0772 1 SUPBLK END;
```

```
: 0773 1 xSBTTL 'RL02 Offline Support Block'
: P 0774 1 INIT_SUPBLK_HEAD
: P 0775 1 (
: P 0776 1 Device_Name = RL02,
: P 0777 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 0778 1 Test_Class = MEN$K_Tstcla_Disk,
: P 0779 1 Testcnfg_No = 1,
: P 0780 1 Diagnostic_Level = '3'
: 0781 1 )
: P 0782 1 INIT_TSTCNFG_BLK
: P 0783 1 (
: P 0784 1 DevTstPrep_Code = MEN$K_DevTstPrep_1,
: P 0785 1 Diagblk_No = 1
: 0786 1 )
: P 0787 1 INIT_DIAGBLK
: P 0788 1 (
: P 0789 1 Diagnostic_Name = EVRAD,
: P 0790 1 Set_Flags_Args = 'QUICK',
: P 0791 1 Set_Event_Args = '',
: P 0792 1 Start_Qualifiers = '',
: P 0793 1 Test_Start_Text = '',
: P 0794 1 RunTime = '00:45'
: 0795 1 )
: 0796 1 SUPBLK_END;
```

```
; 0797 1 xSBTTL 'R80 Offline Support Block'
; P 0798 1 INIT_SUPBLK_HEAD
; P 0799 1 (
; P 0800 1 Device_Name = R80,
; P 0801 1 Test_Category = MEN$K_Tstctg_10_Unit,
; P 0802 1 Test_Class = MEN$K_Tstcla_Disk,
; P 0803 1 Testcnfg_No = 1,
; P 0804 1 Diagnostic_Level = '3'
; 0805 1 ),
; P 0806 1 INIT_TSTCNFG_BLK
; P 0807 1 (
; P 0808 1 DevTstPrep_Code = MEN$K_DevTstPrep_4,
; P 0809 1 Diagblk_No = 1
; 0810 1 ),
; P 0811 1 INIT_DIAGBLK
; P 0812 1 (
; P 0813 1 Diagnostic_Name = EVRAD,
; P 0814 1 Set_Flags_Args = 'QUICK',
; P 0815 1 Set_Event_Args = '',
; P 0816 1 Start_Qualifiers = '',
; P 0817 1 Test_Start_Text = '',
; P 0818 1 RunTime = '01:00'
; 0819 1 ),
; 0820 1 SUPBLK_END;
; 0821 1
; 0822 1
```

```
; 0823 1 *SBTTL 'RA60 Offline Support Block'
; P 0824 1 INIT_SUPBLK_HEAD
; P 0825 1 (
; P 0826 1 Device_Name = RA60,
; P 0827 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 0828 1 Test_Class = MEN$K_Tstcla_Disk,
; P 0829 1 Testcnfg_No = 1,
; P 0830 1 Diagnostic_Level = '3'
; 0831 1 ),
; P 0832 1 INIT_TSTCNFG_BLK
; P 0833 1 (
; P 0834 1 DevTstPrep_Code = MEN$K_DevTstPrep_1,
; P 0835 1 Diagblk_No = 1
; 0836 1 ),
; P 0837 1 INIT_DIAGBLK
; P 0838 1 (
; P 0839 1 Diagnostic_Name = EVRLA,
; P 0840 1 Set_Flags_Args = 'QUICK',
; P 0841 1 Set_Event_Args = '',
; P 0842 1 Start_Qualifiers = '/SECTION:CRD12',
; P 0843 1 Test_Start_Text = '',
; P 0844 1 RunTime = '01:00'
; 0845 1 )
; 0846 1 SUPBLK END;
; 0847 1
```

```
: 0848 1 xSBTTL 'RA80 Offline Support Block'
: P 0849 1 INIT_SUPBLK_HEAD
: P 0850 1 (
: P 0851 1 Device_Name = RA80,
: P 0852 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 0853 1 Test_Class = MEN$K_Tstcla_Disk,
: P 0854 1 Testcnfg_No = 1,
: P 0855 1 Diagnostic_Level = '3'
: 0856 1 ),
: P 0857 1 INIT_TSTCNFG_BLK
: P 0858 1 (
: P 0859 1 DevTstPrep_Code = MEN$K_DevTstPrep_4,
: P 0860 1 Diagblk_No = 1
: 0861 1 ),
: P 0862 1 INIT_DIAGBLK
: P 0863 1 (
: P 0864 1 Diagnostic_Name = EVRLA,
: P 0865 1 Set_Flags_Args = 'QUICK',
: P 0866 1 Set_Event_Args = '',
: P 0867 1 Start_Qualifiers = '/SECTION:CRD12',
: P 0868 1 Test_Start_Text = '',
: P 0869 1 RunTime = '02:45'
: 0870 1 ),
: 0871 1 SUPBLK_END;
: 0872 1
```

```

; 0873 1 xSBTTL 'RA81 Offline Support Block'
; P 0874 1 INIT_SUPBLK_HEAD
; P 0875 1 (
; P 0876 1 Device_Name = RA81,
; P 0877 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 0878 1 Test_Class = MEN$K_Tstcla_Disk,
; P 0879 1 Testcnfg_No = 1,
; P 0880 1 Diagnostic_Level = '3'
; 0881 1 ),
; P 0882 1 INIT_TSTCNFG_BLK
; P 0883 1 (
; P 0884 1 DevTstPrep_Code = MEN$K_DevTstPrep_4,
; P 0885 1 Diagblk_No = 1
; 0886 1 ),
; P 0887 1 INIT_DIAGBLK
; P 0888 1 (
; P 0889 1 Diagnostic_Name = EVRLA,
; P 0890 1 Set_Flags_Args = 'QUICK',
; P 0891 1 Set_Event_Args = '',
; P 0892 1 Start_Qualifiers = '/SECTION:CRD12',
; P 0893 1 Test_Start_Text = '',
; P 0894 1 RunTime = '01:30'
; 0895 1 ),
; 0896 1 SUPBLK_END;
; 0897 1

```

```
: 0898 1 xSBTTL 'DHU11 Offline Support Block'
: P 0899 1 INIT_SUPBLK_HEAD
: P 0900 1 (
: P 0901 1 Device_Name = DHU11,
: P 0902 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 0903 1 Test_Class = MEN$K_Tstcla_Comm,
: P 0904 1 Testcnfg_No = 1,
: P 0905 1 Diagnostic_Level = '3'
: 0906 1 )
: P 0907 1 INIT_TSTCNFG_BLK
: P 0908 1 (
: P 0909 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0910 1 Diagblk_No = 1
: 0911 1 )
: P 0912 1 INIT_DIAGBLK
: P 0913 1 (
: P 0914 1 Diagnostic_Name = EVDAI,
: P 0915 1 Set_Flags_Args = 'QUICK',
: P 0916 1 Set_Event_Args = '',
: P 0917 1 Start_Qualifiers = '',
: P 0918 1 Test_Start_Text = '',
: P 0919 1 RunTime = '00:30'
: 0920 1 )
: 0921 1 SUPBLK_END;
: 0922 1
: 0923 1
```


Z E V

: 0924 1

```
: 0925 1 xSBTTL 'DMF32S Offline Support Block'
: P 0926 1 INIT_SUPBLK_HEAD
: P 0927 1 (
: P 0928 1 Device_Name = DMF32S,
: P 0929 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 0930 1 Test_Class = MEN$K_Tstcla_Comm,
: P 0931 1 Testcnfg_No = 1,
: P 0932 1 Diagnostic_Level = '3'
: P 0933 1 ),
: P 0934 1 INIT_TSTCNFG_BLK
: P 0935 1 (
: P 0936 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0937 1 Diagb k_No = 1
: P 0938 1 ),
: P 0939 1 INIT_DIAGBLK
: P 0940 1 (
: P 0941 1 Diagnostic_Name = EVDLB,
: P 0942 1 Set_Flags_Args = 'QUICK',
: P 0943 1 Set_Event_Args = '',
: P 0944 1 Start_Qualifiers = '',
: P 0945 1 Test_Start_Text = 'COMBO',
: P 0946 1 RunTime = '01:00'
: P 0947 1 ),
: 0948 1 SUPBLK END;
: 0949 1
: 0950 1
```

```

; 0951 1 *SBTTL 'DMF32A Offline Support Block'
; P 0952 1 INIT_SUPBLK_HEAD
; P 0953 1 (
; P 0954 1 Device_Name = DMF32A,
; P 0955 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 0956 1 Test_Class = MEN$K_Tstcla_Comm,
; P 0957 1 Testcnfg_No = 1,
; P 0958 1 Diagnostic_Level = '3'
; 0959 1 ),
; P 0960 1 INIT_TSTCNFG_BLK
; P 0961 1 (
; P 0962 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 0963 1 Diagblk_No = 1
; 0964 1 ),
; P 0965 1 INIT_DIAGBLK
; P 0966 1 (
; P 0967 1 Diagnostic_Name = EVDLC,
; P 0968 1 Set_Flags_Args = 'QUICK',
; P 0969 1 Set_Event_Args = '',
; P 0970 1 Start_Qualifiers = '',
; P 0971 1 Test_Start_Text = 'COMBO',
; P 0972 1 RunTime = '00:30'
; 0973 1 )
; 0974 1 SUPBLK END;

```

```
: 0975 1 xSBTTL 'DMF32P Offline Support Block'
: P 0976 1 INIT_SUPBLK_HEAD
: P 0977 1 (
: P 0978 1 Device_Name = DMF32P,
: P 0979 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 0980 1 Test_Class = MEN$K_Tstcla_Comm,
: P 0981 1 Testcnfg_No = 1,
: P 0982 1 Diagnostic_Level = '3'
: 0983 1 )
: P 0984 1 INIT_TSTCNFG_BLK
: P 0985 1 (
: P 0986 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 0987 1 Diagblk_No = 1
: 0988 1 )
: P 0989 1 INIT_DIAGBLK
: P 0990 1 (
: P 0991 1 Diagnostic_Name = EVDLD,
: P 0992 1 Set_Flags_Args = 'QUICK',
: P 0993 1 Set_Event_Args = '',
: P 0994 1 Start_Qualifiers = '',
: P 0995 1 Test_Start_Text = 'COMBO',
: P 0996 1 RunTime = '00:30'
: 0997 1 )
: 0998 1 SUPBLK_END;
: 0999 1
: 1000 1
```

```

: 1001 1 *SBTTL 'DMR11 Offline Support Block'
: P 1002 1 INIT_SUPBLK_HEAD
: P 1003 1 (
: P 1004 1 Device_Name = DMR11,
: P 1005 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 1006 1 Test_Class = MEN$K_Tstcla_Comm,
: P 1007 1 Testcnfg_No = 1,
: P 1008 1 Diagnostic_Level = '3'
: P 1009 1 ),
: P 1010 1 INIT_TSTCNFG_BLK
: P 1011 1 (
: P 1012 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1013 1 Diagblk_No = 2
: P 1014 1 ),
: P 1015 1 INIT_DIAGBLK
: P 1016 1 (
: P 1017 1 Diagnostic_Name = EVDXA,
: P 1018 1 Set_Flags_Args = 'QUICK',
: P 1019 1 Set_Event_Args = '',
: P 1020 1 Start_Qualifiers = '',
: P 1021 1 Test_Start_Text = 'PART 1',
: P 1022 1 RunTime = '00:30'
: P 1023 1 ),
: P 1024 1 INIT_DIAGBLK
: P 1025 1 (
: P 1026 1 Diagnostic_Name = EVDMA,
: P 1027 1 Set_Flags_Args = 'QUICK',
: P 1028 1 Set_Event_Args = '',
: P 1029 1 Start_Qualifiers = '',
: P 1030 1 Test_Start_Text = 'PART 2',
: P 1031 1 RunTime = '00:30'
: P 1032 1 ),
: 1033 1 SUPBLK_END;
: 1034 1
: 1035 1

```

```
: 1036 1
: 1037 1 xSBTTL 'DEUNA Offline Support Block'
: P 1038 1 INIT_SUPBLK_HEAD
: P 1039 1 (
: P 1040 1 Device_Name = UNA11,
: P 1041 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 1042 1 Test_Class = MEN$K_Tstcla_Comm,
: P 1043 1 Testcnfg_No = 1,
: P 1044 1 Diagnostic_Level = '3'
: 1045 1 ),
: P 1046 1 INIT_TSTCNFG_BLK
: P 1047 1 (
: P 1048 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1049 1 Diagblk_No = 1
: 1050 1 ),
: P 1051 1 INIT_DIAGBLK
: P 1052 1 (
: P 1053 1 Diagnostic_Name = EVDWA,
: P 1054 1 Set_Flags_Args = '',
: P 1055 1 Set_Event_Args = '',
: P 1056 1 Start_Qualifiers = '',
: P 1057 1 Test_Start_Text = '',
: P 1058 1 RunTime = '02:00'
: 1059 1 )
: 1060 1 SUPBLK_END;
: 1061 1
: 1062 1
```

```

; 1063 1 xSBTTL 'DR11W Offline Support Block'
; P 1064 1 INIT_SUPBLK_HEAD
; P 1065 1 (
; P 1066 1 Device_Name = DR11W,
; P 1067 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 1068 1 Test_Class = MEN$K_Tstcla_Real,
; P 1069 1 Testcnfg_No = 1,
; P 1070 1 Diagnostic_Level = '3'
; 1071 1 ),
; P 1072 1 INIT_TSTCNFG_BLK
; P 1073 1 (
; P 1074 1 DevTstPrep Code = MEN$K_DevTstPrep_Null,
; P 1075 1 Diagblk_No = 2
; 1076 1 ),
; P 1077 1 INIT_DIAGBLK
; P 1078 1 (
; P 1079 1 Diagnostic_Name = EVDRE,
; P 1080 1 Set_Flags_Args = 'QUICK',
; P 1081 1 Set_Event_Args = '',
; P 1082 1 Start_Qualifiers = '',
; P 1083 1 Test_Start_Text = 'PART 1',
; P 1084 1 RunTime = '00:15'
; 1085 1 ),
; P 1086 1 INIT_DIAGBLK
; P 1087 1 (
; P 1088 1 Diagnostic_Name = EVDRB,
; P 1089 1 Set_Flags_Args = 'QUICK',
; P 1090 1 Set_Event_Args = '',
; P 1091 1 Start_Qualifiers = '',
; P 1092 1 Test_Start_Text = 'PART 2',
; P 1093 1 RunTime = '00:15'
; 1094 1 ),
; 1095 1 SUPBLK_END;
; 1096 1
; 1097 1

```

```

: 1098 1
: 1099 1 xSBTTL 'DMP11 Offline Support Block'
: P 1100 1 INIT_SUPBLK_HEAD
: P 1101 1 (
: P 1102 1 Device_Name = DMP11,
: P 1103 1 Test_Category = MEN$K_Tstctg_IO_Controller,
: P 1104 1 Test_Class = MEN$K_Tstcla_COMM,
: P 1105 1 Testcnfg_No = 1,
: P 1106 1 Diagnostic_Level = '3'
: 1107 1 ),
: P 1108 1 INIT_TSTCNFG_BLK
: P 1109 1 (
: P 1110 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1111 1 Diagblk_No = 1
: 1112 1 ),
: P 1113 1 INIT_DIAGBLK
: P 1114 1 (
: P 1115 1 Diagnostic_Name = EVDMB,
: P 1116 1 Set_Flags_Args = '',
: P 1117 1 Set_Event_Args = '',
: P 1118 1 Start_Qualifiers = '',
: P 1119 1 Test_Start_Text = '',
: P 1120 1 RunTime = '01:00'
: 1121 1 )
: 1122 1 SUPBLK_END;
: 1123 1
: 1124 1
: 1125 1
: 1126 1

```



```

; 1127 1 xSBTTL 'DUP11 Offline Support Block'
; P 1128 1 INIT_SUPBLK_HEAD
; P 1129 1 (
; P 1130 1 Device_Name = DUP11,
; P 1131 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 1132 1 Test_Class = MEN$K_Tstcla_COMM,
; P 1133 1 Testcnfg_No = 1,
; P 1134 1 Diagnostic_Level = '3'
; P 1135 1 )
; P 1136 1 INIT_TSTCNFG_BLK
; P 1137 1 (
; P 1138 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1139 1 Diagblk_No = 1
; P 1140 1 )
; P 1141 1 INIT_DIAGBLK
; P 1142 1 (
; P 1143 1 Diagnostic_Name = EVDUP,
; P 1144 1 Set_Flags_Args = 'QUICK',
; P 1145 1 Set_Event_Args = '',
; P 1146 1 Start_Qualifiers = '',
; P 1147 1 Test_Start_Text = '',
; P 1148 1 RunTime = '00:10'
; P 1149 1 )
; 1150 1 SUPBLK_END;
; 1151 1
; 1152 1
; 1153 1
; 1154 1
; 1155 1
; 1156 1

```

```

; 1157 1 xSBTTL 'DZ11 Offline Support Block'
; P 1158 1 INIT_SUPBLK_HEAD
; P 1159 1 (
; P 1160 1 Device_Name = XDZ11,
; P 1161 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 1162 1 Test_Class = MEN$K_Tstcla_TERM,
; P 1163 1 Testcnfg_No = 1,
; P 1164 1 Diagnostic_Level = '3'
; 1165 1 ),
; P 1166 1 INIT_TSTCNFG_BLK
; P 1167 1 (
; P 1168 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1169 1 Diagblk_No = 1
; 1170 1 ),
; P 1171 1 INIT_DIAGBLK
; P 1172 1 (
; P 1173 1 Diagnostic_Name = EVDAA,
; P 1174 1 Set_Flags_Args = 'QUICK',
; P 1175 1 Set_Event_Args = '',
; P 1176 1 Start_Qualifiers = '',
; P 1177 1 Test_Start_Text = '',
; P 1178 1 RunTime = '00:00'
; 1179 1 )
; 1180 1 SUPBLK_END;
; 1181 1
; 1182 1
; 1183 1
; 1184 1
; 1185 1
; 1186 1

```

```
; 1187 1
; 1188 1 xSBTTL 'DZ32 Offline Support Block'
; P 1189 1 INIT_SUPBLK_HEAD
; P 1190 1 (
; P 1191 1 Device_Name = DZ32,
; P 1192 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 1193 1 Test_Class = MEN$K_Tstcla_TERM,
; P 1194 1 Testcnfg_No = 1,
; P 1195 1 Diagnostic_Level = '3'
; 1196 1 ),
; P 1197 1 INIT_TSTCNFG_BLK
; P 1198 1 (
; P 1199 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1200 1 Diagblk_No = 1
; 1201 1 ),
; P 1202 1 INIT_DIAGBLK
; P 1203 1 (
; P 1204 1 Diagnostic_Name = EVDAB,
; P 1205 1 Set_Flags_Args = 'QUICK',
; P 1206 1 Set_Event_Args = '',
; P 1207 1 Start_Qualifiers = '',
; P 1208 1 Test_Start_Text = '',
; P 1209 1 RunTime = '06:00'
; 1210 1 ),
; 1211 1 SUPBLK_END;
; 1212 1
; 1213 1
; 1214 1
; 1215 1
; 1216 1
```

```

: 1217 1
: 1218 1 xSBTTL 'RC25 Offline Support Block'
: 1219 1 ! [03]
: P 1220 1 INIT_SUPBLK_HEAD
: P 1221 1 (
: P 1222 1 Device_Name = RC25,
: P 1223 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1224 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1225 1 Testcnfg_No = 1,
: P 1226 1 Diagnostic_Level = '3'
: 1227 1 ),
: P 1228 1 INIT_TSTCNFG_BLK
: P 1229 1 (
: P 1230 1 DevTstPrep_Code = MEN$K_DevTstPrep_6,
: P 1231 1 Diagblk_No = 2
: 1232 1 ),
: P 1233 1 INIT_DIAGBLK
: P 1234 1 (
: P 1235 1 Diagnostic_Name = EVRMA,
: P 1236 1 Set_Flags_Args = 'QUICK',
: P 1237 1 Set_Event_Args = '',
: P 1238 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1239 1 Test_Start_Text = '',
: P 1240 1 RunTime = '01:00'
: 1241 1 ),
: P 1242 1 INIT_DIAGBLK
: P 1243 1 (
: P 1244 1 Diagnostic_Name = EVRMB,
: P 1245 1 Set_Flags_Args = 'QUICK',
: P 1246 1 Set_Event_Args = '',
: P 1247 1 Start_Qualifiers = '/SECTION:CRD',
: P 1248 1 Test_Start_Text = '',
: P 1249 1 RunTime = '01:00'
: 1250 1 ),
: 1251 1 SUPBLK_END;
: 1252 1
: 1253 1
: 1254 1

```

```
: 1255 1
: 1256 1 xSBTTL 'RCF25 Offline Support Block'
: 1257 1 ! [03]
: P 1258 1 INIT_SUPBLK_HEAD
: P 1259 1 (
: P 1260 1 Device_Name = RCF25,
: P 1261 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1262 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1263 1 Testcnfg_No = 1,
: P 1264 1 Diagnostic_Level = '3'
: 1265 1 ),
: P 1266 1 INIT_TSTCNFG_BLK
: P 1267 1 (
: P 1268 1 DevTstPrep_Code = MEN$K_DevTstPrep_6,
: P 1269 1 Diagblk_No = 2
: 1270 1 ),
: P 1271 1 INIT_DIAGBLK
: P 1272 1 (
: P 1273 1 Diagnostic_Name = EVRMA,
: P 1274 1 Set_Flags_Args = 'QUICK',
: P 1275 1 Set_Event_Args = '',
: P 1276 1 Start_Qualifiers = '/SECTION:CRD',
: P 1277 1 Test_Start_Text = '',
: P 1278 1 RunTime = '01:00'
: 1279 1 ),
: P 1280 1 INIT_DIAGBLK
: P 1281 1 (
: P 1282 1 Diagnostic_Name = EVRMB,
: P 1283 1 Set_Flags_Args = 'QUICK',
: P 1284 1 Set_Event_Args = '',
: P 1285 1 Start_Qualifiers = '/SECTION:CRD',
: P 1286 1 Test_Start_Text = '',
: P 1287 1 RunTime = '01:00'
: 1288 1 ),
: 1289 1 SUPBLK_END;
: 1290 1
: 1291 1
```

```
: 1292 1
: 1293 1 xSBTTL 'RX31 Offline Support block'
: 1294 1
: P 1295 1 INIT_SUPBLK_HEAD
: P 1296 1 (
: P 1297 1 Device_Name = RX31,
: P 1298 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1299 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1300 1 Testcnfg_No=1,
: P 1301 1 Diagnostic_Level = '3'
: 1302 1 ),
: P 1303 1 INIT_TSTCNFG_BLK
: P 1304 1 (
: P 1305 1 DevTstPrep_Code = MEN$K DevTstPrep_7,
: P 1306 1 Diagblk_No = 1,
: P 1307 1 Status_Scratch_Media = False
: 1308 1 ),
: P 1309 1 INIT_DIAGBLK
: P 1310 1 (
: P 1311 1 Diagnostic_Name = EVRNB,
: P 1312 1 Set_Flags_Args = 'QUICK',
: P 1313 1 Set_Event_Args = '',
: P 1314 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1315 1 Test_Start_Text = '',
: P 1316 1 RunTime = '04:00'
: 1317 1 )
: 1318 1 SUPBLK_END;
```

```

; 1319 1 %SBTTL 'RX02 Offline Support block'
; 1320 1
; P 1321 1 INIT_SUPBLK_HEAD
; P 1322 1 (
; P 1323 1 Device_Name = RX02,
; P 1324 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 1325 1 Test_Class = MEN$K_Tstcla_Disk,
; P 1326 1 Testcnfg_No=1,
; P 1327 1 Diagnostic_Level = '3'
; 1328 1 ),
; P 1329 1 INIT_TSTCNFG_BLK
; P 1330 1 (
; P 1331 1 DevTstPrep_Code = MEN$K_DevTstPrep 7,
; P 1332 1 Diagblk_No = 1,
; P 1333 1 Status_Scratch_Media = False
; 1334 1 ),
; P 1335 1 INIT_DIAGBLK
; P 1336 1 (
; P 1337 1 Diagnostic_Name = EVRIA,
; P 1338 1 Set_Flags_Args = 'QUICK',
; P 1339 1 Set_Event_Args = '',
; P 1340 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1341 1 Test_Start_Text = '',
; P 1342 1 RunTime = '00:00'
; 1343 1 )
; 1344 1 SUPBLK_END;

```

```

; 1345 1 xSBTTL 'RX32 Offline Support block'
; 1346 1
; P 1347 1 INIT_SUPBLK_HEAD
; P 1348 1 (
; P 1349 1 Device_Name = RX32,
; P 1350 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 1351 1 Test_Class = MEN$K_Tstcla_Disk,
; P 1352 1 Testcnfg_No=1,
; P 1353 1 Diagnostic_Level = '3'
; 1354 1 ),
; P 1355 1 INIT_TSTCNFG_BLK
; P 1356 1 (
; P 1357 1 DevTstPrep_Code = MEN$K_DevTstPrep 7,
; P 1358 1 Diagblk_No = 1,
; P 1359 1 Status_Scratch_Media = False
; 1360 1 ),
; P 1361 1 INIT_DIAGBLK
; P 1362 1 (
; P 1363 1 Diagnostic_Name = EVRNB,
; P 1364 1 Set_Flags_Args = 'QUICK',
; P 1365 1 Set_Event_Args = '',
; P 1366 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1367 1 Test_Start_Text = '',
; P 1368 1 RunTime = '04:00'
; 1369 1 )
; 1370 1 SUPBLK_END;
  
```



```

: 1371 1 xSBTTL 'RX50 Offline Support block'
: 1372 1
: P 1373 1 INIT_SUPBLK_HEAD
: P 1374 1 (
: P 1375 1 Device_Name = RX50,
: P 1376 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1377 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1378 1 Testcnfg_No=1,
: P 1379 1 Diagnostic_Level = '3'
: 1380 1 ),
: P 1381 1 INIT_TSTCNFG_BLK
: P 1382 1 (
: P 1383 1 DevTstPrep_Code = MEN$K_DevTstPrep_7,
: P 1384 1 Diagblk_No = 1,
: P 1385 1 Status_Scratch_Media = False
: 1386 1 ),
: P 1387 1 INIT_DIAGBLK
: P 1388 1 (
: P 1389 1 Diagnostic_Name = EVRNB,
: P 1390 1 Set_Flags_Args = 'QUICK',
: P 1391 1 Set_Event_Args = '',
: P 1392 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1393 1 Test_Start_Text = '',
: P 1394 1 RunTime = '04:00'
: 1395 1 ),
: 1396 1 SUPBLK_END;
: 1397 1
: 1398 1 xSBTTL 'RX180 Offline Support block'
: 1399 1
: P 1400 1 INIT_SUPBLK_HEAD
: P 1401 1 (
: P 1402 1 Device_Name = RX180,
: P 1403 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1404 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1405 1 Testcnfg_No=1,
: P 1406 1 Diagnostic_Level = '3'
: 1407 1 ),
: P 1408 1 INIT_TSTCNFG_BLK
: P 1409 1 (
: P 1410 1 DevTstPrep_Code = MEN$K_DevTstPrep_7,
: P 1411 1 Diagblk_No = 1,
: P 1412 1 Status_Scratch_Media = False
: 1413 1 ),
: P 1414 1 INIT_DIAGBLK
: P 1415 1 (
: P 1416 1 Diagnostic_Name = EVRNB,
: P 1417 1 Set_Flags_Args = 'QUICK',
: P 1418 1 Set_Event_Args = '',
: P 1419 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1420 1 Test_Start_Text = '',
: P 1421 1 RunTime = '04:00'
: 1422 1 ),
: 1423 1 SUPBLK_END;
: 1424 1

```

```
: 1425 1
: 1426 1 xSBTTL 'TS05 Offline Support Block'
: 1427 1 ! [03]
: P 1428 1 INIT_SUPBLK_HEAD
: P 1429 1 (
: P 1430 1 Device_Name = TS05,
: P 1431 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1432 1 Test_Class = MEN$K_Tstcla_Tape,
: P 1433 1 Testcnfg_No = 1,
: P 1434 1 Diagnostic_Level = '3'
: 1435 1 ),
: P 1436 1 INIT_TSTCNFG_BLK
: P 1437 1 (
: P 1438 1 DevTstPrep_Code = MEN$K_DevTstPrep_3,
: P 1439 1 Diagblk_No = 1,
: P 1440 1 Status_Scratch_Media = True
: 1441 1 ),
: P 1442 1 INIT_DIAGBLK
: P 1443 1 (
: P 1444 1 Diagnostic_Name = EVMAI,
: P 1445 1 Set_Flags_Args = 'QUICK',
: P 1446 1 Set_Event_Args = '',
: P 1447 1 Start_Qualifiers = '/SECTION:CRD',
: P 1448 1 Test_Start_Text = '',
: P 1449 1 RunTime = '03:45'
: 1450 1 ),
: 1451 1 SUPBLK_END;
: 1452 1
: 1453 1
```

ZZ-ENSAB-2.0 VS100 Offline Support block

EVLAA CRD MENU - Functional Test Support 19-Sep-1985 17:30:53 VAX-11 Bliss-32 V4.1-746

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```
: 1454 1 *SBTTL 'VS100 Offline Support block'
: 1455 1
: P 1456 1 INIT_SUPBLK_HEAD
: P 1457 1 (
: P 1458 1 Device_Name = VS100,
: P 1459 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1460 1 Test_Class = MEN$K_Tstcla_Term,
: P 1461 1 Testcnfg_No = 1,
: P 1462 1 Diagnostic_Level = '3'
: P 1463 1 ),
: P 1464 1 INIT_TSTCNFG_BLK
: P 1465 1 (
: P 1466 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1467 1 Diagblk_No = 1,
: P 1468 1 Status_Scratch_Media = False
: P 1469 1 ),
: P 1470 1 INIT_DIAGBLK
: P 1471 1 (
: P 1472 1 Diagnostic_Name = EVWAB,
: P 1473 1 Set_Flags_Args = '',
: P 1474 1 Set_Event_Args = '',
: P 1475 1 Start_Qualifiers = '',
: P 1476 1 Test_Start_Text = '',
: P 1477 1 RunTime = '08:00'
: P 1478 1 )
: 1479 1 SUPBLK_END;
: 1480 1
```

```

; 1481 1 xSBTTL 'BCI750 Offline Support block'
; 1482 1
; P 1483 1 INIT_SUPBLK_HEAD
; P 1484 1 (
; P 1485 1 Device_Name = BCI750,
; P 1486 1 Test_Category = MEN$K_Tstctg_10_Adaptor,
; P 1487 1 Test_Class = MEN$K_Tstcla_10_Adaptor,
; P 1488 1 Testcnfg_No = 1,
; P 1489 1 Diagnostic_Level = '3'
; 1490 1 )
; P 1491 1 INIT_TSTCNFG_BLK
; P 1492 1 (
; P 1493 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1494 1 Diagblk_No = 6,
; P 1495 1 Status_Scratch_Media = False
; 1496 1 )
; P 1497 1 INIT_DIAGBLK
; P 1498 1 (
; P 1499 1 Diagnostic_Name = EVCKA,
; P 1500 1 Set_Flags_Args = '',
; P 1501 1 Set_Event_Args = '',
; P 1502 1 Start_Qualifiers = '',
; P 1503 1 Test_Start_Text = '',
; P 1504 1 RunTime = '00:22'
; 1505 1 )
; P 1506 1 INIT_DIAGBLK
; P 1507 1 (
; P 1508 1 Diagnostic_Name = EVCKB,
; P 1509 1 Set_Flags_Args = '',
; P 1510 1 Set_Event_Args = '',
; P 1511 1 Start_Qualifiers = '',
; P 1512 1 Test_Start_Text = '',
; P 1513 1 RunTime = '07:00'
; 1514 1 )
; P 1515 1 INIT_DIAGBLK
; P 1516 1 (
; P 1517 1 Diagnostic_Name = EVCKC,
; P 1518 1 Set_Flags_Args = '',
; P 1519 1 Set_Event_Args = '',
; P 1520 1 Start_Qualifiers = '',
; P 1521 1 Test_Start_Text = '',
; P 1522 1 RunTime = '10:00'
; 1523 1 )
; P 1524 1 INIT_DIAGBLK
; P 1525 1 (
; P 1526 1 Diagnostic_Name = EVCKD,
; P 1527 1 Set_Flags_Args = '',
; P 1528 1 Set_Event_Args = '',
; P 1529 1 Start_Qualifiers = '',
; P 1530 1 Test_Start_Text = '',
; P 1531 1 RunTime = '05:00'
; 1532 1 )
; P 1533 1 INIT_DIAGBLK
; P 1534 1 (
; P 1535 1 Diagnostic_Name = EVCKE,

```

```
; P 1536 1 Set_Flags_Args = '',
; P 1537 1 Set_Event_Args = '',
; P 1538 1 Start_Qualifiers = '',
; P 1539 1 Test_Start_Text = '',
; P 1540 1 RunTime = '05:00'
; 1541 1 )
; P 1542 1 INIT_DIAGBLK
; P 1543 1 (
; P 1544 1 Diagnostic_Name = EVCKF,
; P 1545 1 Set_Flags_Args = '',
; P 1546 1 Set_Event_Args = '',
; P 1547 1 Start_Qualifiers = '',
; P 1548 1 Test_Start_Text = '',
; P 1549 1 RunTime = '04:00'
; 1550 1 )
; 1551 1 SUPBLK_END;
; 1552 1
```

```
; 1553 1 xSBTTL 'DWBUA Offline Support block'
; 1554 1
; P 1555 1 INIT_SUPBLK_HEAD
; P 1556 1 (
; P 1557 1 Device_Name = DWBUA,
; P 1558 1 Test_Category = MEN$K_Tstctg_IO_Adaptor,
; P 1559 1 Test_Class = MEN$K_Tstcla_IO_Adaptor,
; P 1560 1 Testcnfg_No = 1,
; P 1561 1 Diagnostic_Level = '3'
; 1562 1 ),
; P 1563 1 INIT_TSTCNFG_BLK
; P 1564 1 (
; P 1565 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1566 1 Diagblk_No = 1,
; P 1567 1 Status_Scratch_Media = False
; 1568 1 ),
; P 1569 1 INIT_DIAGBLK
; P 1570 1 (
; P 1571 1 Diagnostic_Name = EVCBB,
; P 1572 1 Set_Flags_Args = '',
; P 1573 1 Set_Event_Args = '',
; P 1574 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1575 1 Test_Start_Text = '',
; P 1576 1 RunTime = '00:22'
; 1577 1 ),
; 1578 1 SUPBLK_END;
; 1579 1
```

```

: 1580 1
: 1581 1 xSBTTL 'VS125 Offline Support Block'
: 1582 1 ! [03]
: 1583 1 ! INIT_SUPBLK_HEAD
: 1584 1 ! (
: 1585 1 !   Device_Name = VS125,
: 1586 1 !   Test_Category = MEN$K_Tstctg_IO_Unit,
: 1587 1 !   Test_Class = MEN$K_Tstcla_Term,
: 1588 1 !   Testcnfg_No = 1,
: 1589 1 !   Diagnostic_Level = '3'
: 1590 1 ! )
: 1591 1 ! INIT_TSTCNFG_BLK
: 1592 1 ! (
: 1593 1 !   DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: 1594 1 !   Diagblk_No = 1,
: 1595 1 !   Status_Scratch_Media = False
: 1596 1 ! )
: 1597 1 ! INIT_DIAGBLK
: 1598 1 ! (
: 1599 1 !   Diagnostic_Name = ENWCA,
: 1600 1 !   Set_Flags_Args = 'QUICK',
: 1601 1 !   Set_Event_Args = '',
: 1602 1 !   Start_Qualifiers = '/SECTION:DEFAULT',
: 1603 1 !   Test_Start_Text = '',
: 1604 1 !   RunTime = '03:00'
: 1605 1 ! )
: 1606 1 ! SUPBLK_END;
: 1607 1

```

```

: 1608 1 |*****
: 1609 1 |*
: 1610 1 | The items that follow are online diagnostics/devices. The Diagnostic
: 1611 1 | level entry may contain 2 or 2R. The answer only indicates that
: 1612 1 | the diagnostics following are online diagnostics not offline.
: 1613 1 | -
: 1614 1 |*****
: 1615 1 |
: 1616 1 |xSBTTL 'DMF32 Online Support Block'
: 1617 1 |
: P 1618 1 | INIT_SUPBLK_HEAD
: P 1619 1 | (
: P 1620 1 |   Device_Name = DMF32S,
: P 1621 1 |   Test_Category = MEN$K_Tstctg_IO_Controller,
: P 1622 1 |   Test_Class = MEN$K_Tstcla_Comm,
: P 1623 1 |   Testcnfg_No = 1,
: P 1624 1 |   Diagnostic_Level = '2R'
: 1625 1 | ),
: P 1626 1 | INIT_TSTCNFG_BLK
: P 1627 1 | (
: P 1628 1 |   DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1629 1 |   Diagblk_No = 1
: 1630 1 | ),
: P 1631 1 | INIT_DIAGBLK
: P 1632 1 | (
: P 1633 1 |   Diagnostic_Name = 'EVDLA',
: P 1634 1 |   Set_Flags_Args = 'QUICK',
: P 1635 1 |   Set_Event_Args = '',
: P 1636 1 |   Start_Qualifiers = '/SECTION:DEFAULT',
: P 1637 1 |   Test_Start_Text = 'DMF32S',
: P 1638 1 |   RunTime = '00:00'
: 1639 1 | )
: 1640 1 | SUPBLK_END;
: 1641 1 |
: 1642 1 |
: 1643 1 |xSBTTL 'DR11W Online Support Block'
: 1644 1 |
: P 1645 1 | INIT_SUPBLK_HEAD
: P 1646 1 | (
: P 1647 1 |   Device_Name = DR11W,
: P 1648 1 |   Test_Category = MEN$K_Tstctg_IO_Controller,
: P 1649 1 |   Test_Class = MEN$K_Tstcla_Real,
: P 1650 1 |   Testcnfg_No = 1,
: P 1651 1 |   Diagnostic_Level = '2'
: 1652 1 | ),
: P 1653 1 | INIT_TSTCNFG_BLK
: P 1654 1 | (
: P 1655 1 |   DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1656 1 |   Diagblk_No = 1
: 1657 1 | ),
: P 1658 1 | INIT_DIAGBLK
: P 1659 1 | (
: P 1660 1 |   Diagnostic_Name = 'EVDRB',
: P 1661 1 |   Set_Flags_Args = 'QUICK',
: P 1662 1 |   Set_Event_Args = '',

```



```

; P 1663 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1664 1 Test_Start_Text = 'DR11W',
; P 1665 1 RunTime = '00:00'
; 1666 1 )
; 1667 1 SUPBLK_END;
; 1668 1
; 1669 1
; 1670 1 xSBTTL 'KA730 Online Support Block'
; 1671 1
; P 1672 1 INIT_SUPBLK_HEAD
; P 1673 1 (
; P 1674 1 Device_Name = KA730,
; P 1675 1 Test_Category = MEN$K_Tstctg_CPU,
; P 1676 1 Test_Class = MEN$K_Tstcla_CPU,
; P 1677 1 Testcnfg_No = 1,
; P 1678 1 Diagnostic_Level = '2R'
; 1679 1 )
; P 1680 1 INIT_TSTCNFG_BLK
; P 1681 1 (
; P 1682 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1683 1 Diagblk_No = 3
; 1684 1 )
; P 1685 1 INIT_DIAGBLK
; P 1686 1 (
; P 1687 1 Diagnostic_Name = EVKAB,
; P 1688 1 Set_Flags_Args = 'QUICK',
; P 1689 1 Set_Event_Args = '',
; P 1690 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1691 1 Test_Start_Text = 'PART I',
; P 1692 1 RunTime = '00:45'
; 1693 1 )
; P 1694 1 INIT_DIAGBLK
; P 1695 1 (
; P 1696 1 Diagnostic_Name = EVKAC,
; P 1697 1 Set_Flags_Args = 'QUICK',
; P 1698 1 Set_Event_Args = '',
; P 1699 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1700 1 Test_Start_Text = 'PART II',
; P 1701 1 RunTime = '01:00'
; 1702 1 )
; P 1703 1 INIT_DIAGBLK
; P 1704 1 (
; P 1705 1 Diagnostic_Name = EVKAD,
; P 1706 1 Set_Flags_Args = 'QUICK',
; P 1707 1 Set_Event_Args = '',
; P 1708 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1709 1 Test_Start_Text = 'PART III',
; P 1710 1 RunTime = '02:00'
; 1711 1 )
; 1712 1 SUPBLK_END;

```

```
; 1713 1 *SBTTL 'KA750 Online Support Block'
; 1714 1
; P 1715 1 INIT_SUPBLK_HEAD
; P 1716 1 (
; P 1717 1 Device_Name = KA750,
; P 1718 1 Test_Category = MEN$K_Tstctg_CPU,
; P 1719 1 Test_Class = MEN$K_Tstcla_CPU,
; P 1720 1 Testcnfg_No = 1,
; P 1721 1 Diagnostic_Level = '2R'
; 1722 1 ),
; P 1723 1 INIT_TSTCNFG_BLK
; P 1724 1 (
; P 1725 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1726 1 Diagblk_No = 3
; 1727 1 ),
; P 1728 1 INIT_DIAGBLK
; P 1729 1 (
; P 1730 1 Diagnostic_Name = EVKAB,
; P 1731 1 Set_Flags_Args = 'QUICK',
; P 1732 1 Set_Event_Args = '',
; P 1733 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1734 1 Test_Start_Text = 'Part I',
; P 1735 1 RunTime = '00:45'
; 1736 1 ),
; P 1737 1 INIT_DIAGBLK
; P 1738 1 (
; P 1739 1 Diagnostic_Name = EVKAC,
; P 1740 1 Set_Flags_Args = 'QUICK',
; P 1741 1 Set_Event_Args = '',
; P 1742 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1743 1 Test_Start_Text = 'Part II',
; P 1744 1 RunTime = '01:00'
; 1745 1 ),
; P 1746 1 INIT_DIAGBLK
; P 1747 1 (
; P 1748 1 Diagnostic_Name = EVKAD,
; P 1749 1 Set_Flags_Args = 'QUICK',
; P 1750 1 Set_Event_Args = '',
; P 1751 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1752 1 Test_Start_Text = 'Part III',
; P 1753 1 RunTime = '02:00'
; 1754 1 ),
; 1755 1 SUPBLK END;
```

```
: 1756 1 *SBTTL 'KA780 Online Support Block'
: 1757 1
: P 1758 1 INIT_SUPBLK_HEAD
: P 1759 1 (
: P 1760 1 Device_Name = KA780,
: P 1761 1 Test_Category = MEN$K_Tstctg_CPU,
: P 1762 1 Test_Class = MEN$K_Tstcla_CPU,
: P 1763 1 Testcnfg_No = 1,
: P 1764 1 Diagnostic_Level = '2R'
: 1765 1 )
: P 1766 1 INIT_TSTCNFG_BLK
: P 1767 1 (
: P 1768 1 DevTstPrep_Code = MEN$K_DevTstPrep Null,
: P 1769 1 Diagblk_No = 3
: 1770 1 )
: P 1771 1 INIT_DIAGBLK
: P 1772 1 (
: P 1773 1 Diagnostic_Name = EVKAB,
: P 1774 1 Set_Flags_Args = 'QUICK',
: P 1775 1 Set_Event_Args = '',
: P 1776 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1777 1 Test_Start_Text = 'Part I',
: P 1778 1 RunTime = '00:45'
: 1779 1 )
: P 1780 1 INIT_DIAGBLK
: P 1781 1 (
: P 1782 1 Diagnostic_Name = EVKAC,
: P 1783 1 Set_Flags_Args = 'QUICK',
: P 1784 1 Set_Event_Args = '',
: P 1785 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1786 1 Test_Start_Text = 'Part II',
: P 1787 1 RunTime = '01:00'
: 1788 1 )
: P 1789 1 INIT_DIAGBLK
: P 1790 1 (
: P 1791 1 Diagnostic_Name = EVKAD,
: P 1792 1 Set_Flags_Args = 'QUICK',
: P 1793 1 Set_Event_Args = '',
: P 1794 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1795 1 Test_Start_Text = 'Part III',
: P 1796 1 RunTime = '02:00'
: 1797 1 )
: 1798 1 SUPBLK_END;
: 1799 1
: 1800 1 *SBTTL 'KA820 Online Support Block'
: 1801 1
: P 1802 1 INIT_SUPBLK_HEAD
: P 1803 1 (
: P 1804 1 Device_Name = KA820,
: P 1805 1 Test_Category = MEN$K_Tstctg_CPU,
: P 1806 1 Test_Class = MEN$K_Tstcla_CPU,
: P 1807 1 Testcnfg_No = 1,
: P 1808 1 Diagnostic_Level = '2R'
: 1809 1 )
: P 1810 1 INIT_TSTCNFG_BLK
```

```
; P 1811 1  (  
; P 1812 1  DevTstPrep_Code = MEN$K_DevTstPrep_Null,  
; P 1813 1  Diagblk_No = 2  
; P 1814 1  ),  
; P 1815 1  INIT_DIAGBLK  
; P 1816 1  (  
; P 1817 1  Diagnostic_Name = EVKAB,  
; P 1818 1  Set_Flags_Args = 'QUICK',  
; P 1819 1  Set_Event_Args = '',  
; P 1820 1  Start_Qualifiers = '/SECTION:DEFAULT',  
; P 1821 1  Test_Start_Text = 'Part I',  
; P 1822 1  RunTime = '00:45'  
; P 1823 1  ),  
; P 1824 1  INIT_DIAGBLK  
; P 1825 1  (  
; P 1826 1  Diagnostic_Name = EVKAC,  
; P 1827 1  Set_Flags_Args = 'QUICK',  
; P 1828 1  Set_Event_Args = '',  
; P 1829 1  Start_Qualifiers = '/SECTION:DEFAULT',  
; P 1830 1  Test_Start_Text = 'Part II',  
; P 1831 1  RunTime = '01:00'  
; P 1832 1  ),  
; P 1833 1  SUPBLK_END;
```

```

; 1834 1 xSBTTL 'KA86 Online Support Block'
; 1835 1
; P 1836 1 INIT_SUPBLK_HEAD
; P 1837 1 (
; P 1838 1 Device_Name = KA86,
; P 1839 1 Test_Category = MEN$K_Tstctg_CPU,
; P 1840 1 Test_Class = MEN$K_Tstcla_CPU,
; P 1841 1 Testcnfg_No = 1,
; P 1842 1 Diagnostic_Level = '2R'
; 1843 1 )
; P 1844 1 INIT_TSTCNFG_BLK
; P 1845 1 (
; P 1846 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1847 1 Diagblk_No = 3
; 1848 1 )
; P 1849 1 INIT_DIAGBLK
; P 1850 1 (
; P 1851 1 Diagnostic_Name = EVKAB,
; P 1852 1 Set_Flags_Args = 'QUICK',
; P 1853 1 Set_Event_Args = '',
; P 1854 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1855 1 Test_Start_Text = 'Part I',
; 1856 1 RunTime = '00:45' ),
; P 1857 1 INIT_DIAGBLK
; P 1858 1 (
; P 1859 1 Diagnostic_Name = EVKAC,
; P 1860 1 Set_Flags_Args = 'QUICK',
; P 1861 1 Set_Event_Args = '',
; P 1862 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1863 1 Test_Start_Text = 'Part II',
; P 1864 1 RunTime = '01:00'
; 1865 1 )
; P 1866 1 INIT_DIAGBLK
; P 1867 1 (
; P 1868 1 Diagnostic_Name = EVKAD,
; P 1869 1 Set_Flags_Args = 'QUICK',
; P 1870 1 Set_Event_Args = '',
; P 1871 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1872 1 Test_Start_Text = 'Part III',
; P 1873 1 RunTime = '02:00'
; 1874 1 )
; 1875 1 SUPBLK_END;
  
```

```
; 1876 1 xSBTTL 'RC25 Online Support Block'
; 1877 1
; P 1878 1 INIT_SUPBLK_HEAD
; P 1879 1 (
; P 1880 1 Device_Name = RC25,
; P 1881 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 1882 1 Test_Class = MEN$K_Tstcla_Disk,
; P 1883 1 Testcnfg_No = 1,
; P 1884 1 Diagnostic_Level = '2R'
; 1885 1 ),
; P 1886 1 INIT_TSTCNFG_BLK
; P 1887 1 (
; P 1888 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 1889 1 Diagblk_No = 1
; 1890 1 ),
; P 1891 1 INIT_DIAGBLK
; P 1892 1 (
; P 1893 1 Diagnostic_Name = EVRMD,
; P 1894 1 Set_Flags_Args = 'QUICK',
; P 1895 1 Set_Event_Args = '',
; P 1896 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 1897 1 Test_Start_Text = 'Disk',
; P 1898 1 RunTime = '00:00'
; 1899 1 )
; 1900 1 SUPBLK_END;
; 1901 1
```

```
: 1902 1 xSBTTL 'RCF25 Online Support Block'
: 1903 1
: P 1904 1 INIT_SUPBLK_HEAD
: P 1905 1 (
: P 1906 1 Device_Name = RCF25,
: P 1907 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1908 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1909 1 Testcnfg_No = 1,
: P 1910 1 Diagnostic_Level = '2R'
: 1911 1 ),
: P 1912 1 INIT_TSTCNFG_BLK
: P 1913 1 (
: P 1914 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1915 1 Diagblk_No = 1
: 1916 1 ),
: P 1917 1 INIT_DIAGBLK
: P 1918 1 (
: P 1919 1 Diagnostic_Name = EVRMD,
: P 1920 1 Set_Flags_Args = 'QUICK',
: P 1921 1 Set_Event_Args = '',
: P 1922 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1923 1 Test_Start_Text = 'Disk',
: P 1924 1 RunTime = '00:00'
: 1925 1 ),
: 1926 1 SUPBLK_END;
: 1927 1
```

```
: 1928 1 xSBTTL 'RK06 Online Support Block'
: 1929 1
: P 1930 1 INIT_SUPBLK_HEAD
: P 1931 1 (
: P 1932 1 Device_Name = RK06,
: P 1933 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1934 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1935 1 Testcnfg_No = 1,
: P 1936 1 Diagnostic_Level = '2R'
: 1937 1 ),
: P 1938 1 INIT_TSTCNFG_BLK
: P 1939 1 (
: P 1940 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1941 1 Diagblk_No = 2
: 1942 1 ),
: P 1943 1 INIT_DIAGBLK
: P 1944 1 (
: P 1945 1 Diagnostic_Name = EVRAA,
: P 1946 1 Set_Flags_Args = 'QUICK',
: P 1947 1 Set_Event_Args = '',
: P 1948 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1949 1 Test_Start_Text = 'Disk',
: P 1950 1 RunTime = '00:00'
: 1951 1 ),
: P 1952 1 INIT_DIAGBLK
: P 1953 1 (
: P 1954 1 Diagnostic_Name = EVRAD,
: P 1955 1 Set_Flags_Args = 'QUICK',
: P 1956 1 Set_Event_Args = '',
: P 1957 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1958 1 Test_Start_Text = 'Disk',
: P 1959 1 RunTime = '00:00'
: 1960 1 ),
: 1961 1 SUPBLK_END;
: 1962 1
```



```

: 1963 1 xSBTTL 'RK07 Online Support Block'
: 1964 1
: P 1965 1 INIT_SUPBLK_HEAD
: P 1966 1 (
: P 1967 1 Device_Name = RK07,
: P 1968 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 1969 1 Test_Class = MEN$K_Tstcla_Disk,
: P 1970 1 Testcnfg_No = 1,
: P 1971 1 Diagnostic_Level = '2R'
: 1972 1 ),
: P 1973 1 INIT_TSTCNFG_BLK
: P 1974 1 (
: P 1975 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 1976 1 Diagblk_No = 2
: 1977 1 ),
: P 1978 1 INIT_DIAGBLK
: P 1979 1 (
: P 1980 1 Diagnostic_Name = EVRAA,
: P 1981 1 Set_Flags_Args = 'QUICK',
: P 1982 1 Set_Event_Args = '',
: P 1983 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1984 1 Test_Start_Text = 'Disk',
: P 1985 1 RunTime = '00:00'
: 1986 1 ),
: P 1987 1 INIT_DIAGBLK
: P 1988 1 (
: P 1989 1 Diagnostic_Name = EVRAD,
: P 1990 1 Set_Flags_Args = 'QUICK',
: P 1991 1 Set_Event_Args = '',
: P 1992 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 1993 1 Test_Start_Text = 'Disk',
: P 1994 1 RunTime = '00:00'
: 1995 1 ),
: 1996 1 SUPBLK_END;
: 1997 1

```

```

: 1998 1 xSBTTL 'RM03 Online Support Block'
: 1999 1
: P 2000 1 INIT_SUPBLK_HEAD
: P 2001 1 (
: P 2002 1 Device_Name = RM03,
: P 2003 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 2004 1 Test_Class = MEN$K_Tstcla_Disk,
: P 2005 1 Testcnfg_No = 1,
: P 2006 1 Diagnostic_Level = '2R'
: 2007 1 ),
: P 2008 1 INIT_TSTCNFG_BLK
: P 2009 1 (
: P 2010 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 2011 1 Diagblk_No = 2
: 2012 1 ),
: P 2013 1 INIT_DIAGBLK
: P 2014 1 (
: P 2015 1 Diagnostic_Name = EVRAA,
: P 2016 1 Set_Flags_Args = 'QUICK',
: P 2017 1 Set_Event_Args = '',
: P 2018 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2019 1 Test_Start_Text = 'Disk',
: P 2020 1 RunTime = '00:00'
: 2021 1 ),
: P 2022 1 INIT_DIAGBLK
: P 2023 1 (
: P 2024 1 Diagnostic_Name = EVRAD,
: P 2025 1 Set_Flags_Args = 'QUICK',
: P 2026 1 Set_Event_Args = '',
: P 2027 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2028 1 Test_Start_Text = 'Disk',
: P 2029 1 RunTime = '00:00'
: 2030 1 ),
: 2031 1 SUPBLK_END;
: 2032 1

```

```

: 2033 1 xSBTTL 'RM05 Online Support Block'
: 2034 1
: P 2035 1 INIT_SUPBLK_HEAD
: P 2036 1 (
: P 2037 1 Device_Name = RM05,
: P 2038 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 2039 1 Test_Class = MEN$K_Tstcla_Disk,
: P 2040 1 Testcnfg_No = 1,
: P 2041 1 Diagnostic_Level = '2R'
: 2042 1 ),
: P 2043 1 INIT_TSTCNFG_BLK
: P 2044 1 (
: P 2045 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 2046 1 Diagblk_No = 2
: 2047 1 ),
: P 2048 1 INIT_DIAGBLK
: P 2049 1 (
: P 2050 1 Diagnostic_Name = EVRAA,
: P 2051 1 Set_Flags_Args = 'QUICK',
: P 2052 1 Set_Event_Args = '',
: P 2053 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2054 1 Test_Start_Text = 'Disk',
: P 2055 1 RunTime = '00:00'
: 2056 1 ),
: P 2057 1 INIT_DIAGBLK
: P 2058 1 (
: P 2059 1 Diagnostic_Name = EVRAD,
: P 2060 1 Set_Flags_Args = 'QUICK',
: P 2061 1 Set_Event_Args = '',
: P 2062 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2063 1 Test_Start_Text = 'Disk',
: P 2064 1 RunTime = '00:00'
: 2065 1 ),
: 2066 1 SUPBLK_END;
: 2067 1

```

```

: 2068 1 xSBTTL 'RM80 Online Support Block'
: 2069 1
: P 2070 1 INIT_SUPBLK_HEAD
: P 2071 1 (
: P 2072 1 Device_Name = RM80,
: P 2073 1 Test_Category = MEN$K_Tstctg_IO_Unit,
: P 2074 1 Test_Class = MEN$K_Tstcla_Disk,
: P 2075 1 Testcnfg_No = 1,
: P 2076 1 Diagnostic_Level = '2R'
: 2077 1 )
: P 2078 1 INIT_TSTCNFG_BLK
: P 2079 1 (
: P 2080 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
: P 2081 1 Diagblk_No = 2
: 2082 1 )
: P 2083 1 INIT_DIAGBLK
: P 2084 1 (
: P 2085 1 Diagnostic_Name = EVRAA,
: P 2086 1 Set_Flags_Args = 'QUICK',
: P 2087 1 Set_Event_Args = '',
: P 2088 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2089 1 Test_Start_Text = 'Disk',
: P 2090 1 RunTime = '00:00'
: 2091 1 )
: P 2092 1 INIT_DIAGBLK
: P 2093 1 (
: P 2094 1 Diagnostic_Name = EVRAD,
: P 2095 1 Set_Flags_Args = 'QUICK',
: P 2096 1 Set_Event_Args = '',
: P 2097 1 Start_Qualifiers = '/SECTION:DEFAULT',
: P 2098 1 Test_Start_Text = 'Disk',
: P 2099 1 RunTime = '00:00'
: 2100 1 )
: 2101 1 SUPBLK_END;
: 2102 1

```

```

; 2103 1 *SBTTL 'RPO5 Online Support Block'
; 2104 1
; P 2105 1 INIT_SUPBLK_HEAD
; P 2106 1 (
; P 2107 1 Device_Name = RK05,
; P 2108 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2109 1 Test_Class = MEN$K_Tstcla_Disk,
; P 2110 1 Testcnfg_No = 1,
; P 2111 1 Diagnostic_Level = '2R'
; 2112 1 )
; P 2113 1 INIT_TSTCNFG_BLK
; P 2114 1 (
; P 2115 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2116 1 Diagblk_No = 2
; 2117 1 )
; P 2118 1 INIT_DIAGBLK
; P 2119 1 (
; P 2120 1 Diagnostic_Name = EVRAA,
; P 2121 1 Set_Flags_Args = 'QUICK',
; P 2122 1 Set_Event_Args = '',
; P 2123 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2124 1 Test_Start_Text = 'Disk',
; P 2125 1 RunTime = '00:00'
; 2126 1 )
; P 2127 1 INIT_DIAGBLK
; P 2128 1 (
; P 2129 1 Diagnostic_Name = EVRAD,
; P 2130 1 Set_Flags_Args = 'QUICK',
; P 2131 1 Set_Event_Args = '',
; P 2132 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2133 1 Test_Start_Text = 'Disk',
; P 2134 1 RunTime = '00:00'
; 2135 1 )
; 2136 1 SUPBLK_END;
; 2137 1

```

```

; 2138 1 xSBTTL 'RP06 Online Support Block'
; 2139 1
; P 2140 1 INIT_SUPBLK_HEAD
; P 2141 1 (
; P 2142 1 Device_Name = RP06,
; P 2143 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2144 1 Test_Class = MEN$K_Tstcla_Disk,
; P 2145 1 Testcnfg_No = 1,
; P 2146 1 Diagnostic_Level = '2R'
; 2147 1 ),
; P 2148 1 INIT_TSTCNFG_BLK
; P 2149 1 (
; P 2150 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2151 1 Diagblk_No = 2
; 2152 1 ),
; P 2153 1 INIT_DIAGBLK
; P 2154 1 (
; P 2155 1 Diagnostic_Name = EVRAA,
; P 2156 1 Set_Flags_Args = 'QUICK',
; P 2157 1 Set_Event_Args = '',
; P 2158 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2159 1 Test_Start_Text = 'Disk',
; P 2160 1 RunTime = '00:00'
; 2161 1 ),
; P 2162 1 INIT_DIAGBLK
; P 2163 1 (
; P 2164 1 Diagnostic_Name = EVRAD,
; P 2165 1 Set_Flags_Args = 'QUICK',
; P 2166 1 Set_Event_Args = '',
; P 2167 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2168 1 Test_Start_Text = 'Disk',
; P 2169 1 RunTime = '00:00'
; 2170 1 ),
; 2171 1 SUPBLK_END;
; 2172 1

```

```

; 2173 1 xSBTTL 'RP07 Online Support Block'
; 2174 1
; P 2175 1 INIT_SUPBLK_HEAD
; P 2176 1 (
; P 2177 1 Device_Name = RP07,
; P 2178 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2179 1 Test_Class = MEN$K_Tstcla_Disk,
; P 2180 1 Testcnfg_No = 1,
; P 2181 1 Diagnostic_Level = '2R'
; 2182 1 )
; P 2183 1 INIT_TSTCNFG_BLK
; P 2184 1 (
; P 2185 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2186 1 Diagblk_No = 2
; 2187 1 )
; P 2188 1 INIT_DIAGBLK
; P 2189 1 (
; P 2190 1 Diagnostic_Name = EVRAA,
; P 2191 1 Set_Flags_Args = 'QUICK',
; P 2192 1 Set_Event_Args = '',
; P 2193 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2194 1 Test_Start_Text = 'Disk',
; P 2195 1 RunTime = '00:00'
; 2196 1 )
; P 2197 1 INIT_DIAGBLK
; P 2198 1 (
; P 2199 1 Diagnostic_Name = EVRAD,
; P 2200 1 Set_Flags_Args = 'QUICK',
; P 2201 1 Set_Event_Args = '',
; P 2202 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2203 1 Test_Start_Text = 'Disk',
; P 2204 1 RunTime = '00:00'
; 2205 1 )
; 2206 1 SUPBLK_END;
; 2207 1

```

```

; 2208 1 xSBTTL 'RX02 Online Support Block'
; 2209 1
; P 2210 1 INIT_SUPBLK_HEAD
; P 2211 1 (
; P 2212 1 Device_Name = RX02,
; P 2213 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2214 1 Test_Class = MEN$K_Tstcla_Disk,
; P 2215 1 Testcnfg_No = 1,
; P 2216 1 Diagnostic_Level = '2R'
; 2217 1 ),
; P 2218 1 INIT_TSTCNFG_BLK
; P 2219 1 (
; P 2220 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2221 1 Diagblk_No = 2
; 2222 1 ),
; P 2223 1 INIT_DIAGBLK
; P 2224 1 (
; P 2225 1 Diagnostic_Name = EVRAA,
; P 2226 1 Set_Flags_Args = 'QUICK',
; P 2227 1 Set_Event_Args = '',
; P 2228 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2229 1 Test_Start_Text = 'Disk',
; P 2230 1 RunTime = '00:00'
; 2231 1 ),
; P 2232 1 INIT_DIAGBLK
; P 2233 1 (
; P 2234 1 Diagnostic_Name = EVRAD,
; P 2235 1 Set_Flags_Args = 'QUICK',
; P 2236 1 Set_Event_Args = '',
; P 2237 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2238 1 Test_Start_Text = 'Disk',
; P 2239 1 RunTime = '00:00'
; 2240 1 ),
; 2241 1 SUPBLK_END;
; 2242 1

```



```

; 2243 1 xSBTTL 'TU58 Online Support Block'
; 2244 1
; P 2245 1 INIT_SUPBLK_HEAD
; P 2246 1 (
; P 2247 1 Device_Name = TU58,
; P 2248 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2249 1 Test_Class = MEN$K_Tstcla_Disk,
; P 2250 1 Testcnfg_No = 1,
; P 2251 1 Diagnostic_Level = '2R'
; 2252 1 )
; P 2253 1 INIT_TSTCNFG_BLK
; P 2254 1 (
; P 2255 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2256 1 Diagblk_No = 2
; 2257 1 )
; P 2258 1 INIT_DIAGBLK
; P 2259 1 (
; P 2260 1 Diagnostic_Name = EVRAA,
; P 2261 1 Set_Flags_Args = 'QUICK',
; P 2262 1 Set_Event_Args = '',
; P 2263 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2264 1 Test_Start_Text = 'Disk',
; P 2265 1 RunTime = '00:00'
; 2266 1 )
; P 2267 1 INIT_DIAGBLK
; P 2268 1 (
; P 2269 1 Diagnostic_Name = EVRAD,
; P 2270 1 Set_Flags_Args = 'QUICK',
; P 2271 1 Set_Event_Args = '',
; P 2272 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2273 1 Test_Start_Text = 'Disk',
; P 2274 1 RunTime = '00:00'
; 2275 1 )
; 2276 1 SUPBLK_END;
; 2277 1
; 2278 1 xSBTTL 'TU81 Online Support Block'
; 2279 1 ! [03]
; P 2280 1 INIT_SUPBLK_HEAD
; P 2281 1 (
; P 2282 1 Device_Name = TU81,
; P 2283 1 Test_Category = MEN$K_Tstctg_IO_Unit,
; P 2284 1 Test_Class = MEN$K_Tstcla_Tape,
; P 2285 1 Testcnfg_No = 1,
; P 2286 1 Diagnostic_Level = '2R'
; 2287 1 )
; P 2288 1 INIT_TSTCNFG_BLK
; P 2289 1 (
; P 2290 1 DevTstPrep_Code = MEN$K_DevTstPrep_3,
; P 2291 1 Diagblk_No = 1,
; P 2292 1 Status_Scratch_Media = True
; 2293 1 )
; P 2294 1 INIT_DIAGBLK
; P 2295 1 (
; P 2296 1 Diagnostic_Name = EVMBA,
; P 2297 1 Set_Flags_Args = 'QUICK',

```

ZZ-ENSAB-2.0 TU81 Online Support Block K 14
EVLA CRD MENU - Functional Test Support 19-Sep-1985 17:30:53 VAX-11 Bliss-32 V4.1-746 Fiche 1 Frame K14 Sequence 179
V020 TU81 Online Support Block 23-Jul-1985 10:46:11 [DS.CRD.V020]EVLA.B32;1 (62) Page 69

```
; P 2298 1 Set_Event_Args = ''  
; P 2299 1 Start_Qualifiers = '/SECTION:DEFAULT',  
; P 2300 1 Test_Start_Text = 'Tape',  
; P 2301 1 RunTime = '03:45'  
; 2302 1 )  
; 2303 1 SUPBLK_END;  
; 2304 1  
; 2305 1
```

```
; 2306 1 xSBTTL 'UNA11 Online Support Block'
; 2307 1
; P 2308 1 INIT_SUPBLK_HEAD
; P 2309 1 (
; P 2310 1 Device_Name = 'UNA11',
; P 2311 1 Test_Category = MEN$K_Tstctg_IO_Controller,
; P 2312 1 Test_Class = MEN$K_Tstcla_Comm,
; P 2313 1 Testcnfg_No = 1,
; P 2314 1 Diagnostic_Level = '2R'
; 2315 1 ),
; P 2316 1 INIT_TSTCNFG_BLK
; P 2317 1 (
; P 2318 1 DevTstPrep_Code = MEN$K_DevTstPrep_Null,
; P 2319 1 Diagblk_No = 1
; 2320 1 ),
; P 2321 1 INIT_DIAGBLK
; P 2322 1 (
; P 2323 1 Diagnostic_Name = EVDWC,
; P 2324 1 Set_Flags_Args = 'QUICK',
; P 2325 1 Set_Event_Args = '',
; P 2326 1 Start_Qualifiers = '/SECTION:DEFAULT',
; P 2327 1 Test_Start_Text = 'NI Exer',
; P 2328 1 RunTime = '00:00'
; 2329 1 )
; 2330 1 SUPBLK_END;
```

; 2331 1 END
 ; 2332 0 ELUDOM

.TITLE EVLAA CRD MENU - Functional Test Support
 .IDENT \V020\

.PSECT \$\$TU58,NOWRT,NOEXE,2

```

0000001C 00000 .LONG 28
20 20 20 20 20 20 20 38 35 55 54 ; 0B 00004 P.ACF: .ASCII <11>\TU58 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3
  
```

.PSECT \$\$RP07,NOWRT,NOEXE,2

```

0000001C 00000 .LONG 28
20 20 20 20 20 20 20 37 30 50 52 ; 0B 00004 P.ACD: .ASCII <11>\RP07 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
  
```

```
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3
```

.PSECT \$\$RP06,NOWRT,NOEXE,2

```
0000001C 00000 .LONG 28
20 20 20 20 20 20 20 20 36 30 50 52 ; 0B 00004 P.ACC: .ASCII <11>\RP06 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3
```

.PSECT \$\$RK05,NOWRT,NOEXE,2

```
0000001C 00000 .LONG 28
20 20 20 20 20 20 20 20 35 30 4B 52 ; 0B 00004 P.ACB: .ASCII <11>\RK05 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
```

```
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3 ;
```

.PSECT \$\$RM80,NOWRT,NOEXE,2

```
0000001C 00000 .LONG 28 ;
20 20 20 20 20 20 20 30 38 4D 52 0B 00004 P.ACA: .ASCII <11>\RM80 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3 ;
```

.PSECT \$\$RM05,NOWRT,NOEXE,2

```
0000001C 00000 .LONG 28 ;
20 20 20 20 20 20 20 35 30 4D 52 0B 00004 P.AB7: .ASCII <11>\RM05 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
```

```

52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3 ;

.PSECT $$RM03,NOWRT,NOEXE,2

0000001C 00000 .LONG 28 ;
20 20 20 20 20 20 33 30 4D 52 0B 00004 P.ABY: .ASCII <11>\RM03 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3 ;

.PSECT $$RK06,NOWRT,NOEXE,2

0000001C 00000 .LONG 28 ;
```

```
20 20 20 20 20 20 20 36 30 4B 52 0B 00004 P.ABW: .ASCII <11>\RK06 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
52 32 00015 .ASCII \2R\ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 41 52 56 45 05 0001D .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
6B 73 69 44 04 0003B .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00040 .ASCII <5>\00:00\ ;
0006 00046 .WORD 6 ;
44 41 52 56 45 05 00048 .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 0004E .ASCII <5>\QUICK\ ;
00 00054 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00055 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00064 ;
6B 73 69 44 04 00066 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 0006B .ASCII <5>\00:00\ ;
00071 .BLKB 3
```

.PSECT \$\$DWBUA,NOWRT,NOEXE,2

```
0000000F 00000 .LONG 15
20 20 20 20 20 20 41 55 42 57 44 0B 00004 P.ABM: .ASCII <11>\DWBUA \ ;
03 00010 .BYTE 3 ;
0A 00011 .BYTE 10 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 42 43 56 45 05 0001D .ASCII <5>\EVCBB\ ;
00 00023 .ASCII <0> ;
00 00024 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00025 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00034 ;
00 00036 .ASCII <0> ;
32 32 3A 30 30 05 00037 .ASCII <5>\00:22\ ;
0003D .BLKB 3
```

.PSECT \$\$BCI750,NOWRT,NOEXE,2

```
00000021 00000 .LONG 33
20 20 20 20 20 30 35 37 49 43 42 0B 00004 P.ABL: .ASCII <11>\BCI750 \ ;
03 00010 .BYTE 3 ;
0A 00011 .BYTE 10 ;
```



```

01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
06 00018 .BYTE 6 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
    41 4B 43 56 45 05 0001D .ASCII <5>\EVCKA\ ;
00 00023 .ASCII <0> ;
00 00024 .ASCII <0> ;
00 00025 .ASCII <0> ;
00 00026 .ASCII <0> ;
    32 32 3A 30 30 05 00027 .ASCII <5>\00:22\ ;
    0006 0002D .WORD 6 ;
    42 4B 43 56 45 05 0002F .ASCII <5>\EVCKB\ ;
00 00035 .ASCII <0> ;
00 00036 .ASCII <0> ;
00 00037 .ASCII <0> ;
00 00038 .ASCII <0> ;
    30 30 3A 37 30 05 00039 .ASCII <5>\07:00\ ;
    0006 0003F .WORD 6 ;
    43 4B 43 56 45 05 00041 .ASCII <5>\EVCKC\ ;
00 00047 .ASCII <0> ;
00 00048 .ASCII <0> ;
00 00049 .ASCII <0> ;
00 0004A .ASCII <0> ;
    30 30 3A 30 31 05 0004B .ASCII <5>\10:00\ ;
    0006 00051 .WORD 6 ;
    44 4B 43 56 45 05 00053 .ASCII <5>\EVCKD\ ;
00 00059 .ASCII <0> ;
00 0005A .ASCII <0> ;
00 0005B .ASCII <0> ;
00 0005C .ASCII <0> ;
    30 30 3A 35 30 05 0005D .ASCII <5>\05:00\ ;
    0006 00063 .WORD 6 ;
    45 4B 43 56 45 05 00065 .ASCII <5>\EVCKE\ ;
00 0006B .ASCII <0> ;
00 0006C .ASCII <0> ;
00 0006D .ASCII <0> ;
00 0006E .ASCII <0> ;
    30 30 3A 35 30 05 0006F .ASCII <5>\05:00\ ;
    0006 00075 .WORD 6 ;
    46 4B 43 56 45 05 00077 .ASCII <5>\EVCKF\ ;
00 0007D .ASCII <0> ;
00 0007E .ASCII <0> ;
00 0007F .ASCII <0> ;
00 00080 .ASCII <0> ;
    30 30 3A 34 30 05 00081 .ASCII <5>\04:00\ ;
    00087 .BLKB 1 ;

.PSECT $$VS100,NOWRT,NOEXE,2

    0000000B 00000 .LONG 11
20 20 20 20 20 20 30 30 31 53 56 ; 0B 00004 P.ABK: .ASCII <11>\VS100 \ ;
05 00010 .BYTE 5 ;

```

```

07 00011 .BYTE 7 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 41 57 56 45 05 0001D .ASCII <5>\EVHAB\ ;
00 00023 .ASCII <0> ;
00 00024 .ASCII <0> ;
00 00025 .ASCII <0> ;
00 00026 .ASCII <0> ;
30 30 3A 38 30 05 00027 .ASCII <5>\08:00\ ;
    0002D .BLKB 3
  
```

.PSECT \$\$TS05,NOWRT,NOEXE,2

```

0000000F 00000 .LONG 15 ;
20 20 20 20 20 20 20 35 30 53 54 0B 00004 P.ABJ: .ASCII <11>\TS05 \ ;
05 00010 .BYTE 5 ;
04 00011 .BYTE 4 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
03 00017 .BYTE 3 ;
01 00018 .BYTE 1 ;
    0001 00019 .WORD 1 ;
    0006 0001B .WORD 6 ;
49 41 4D 56 45 05 0001D .ASCII <5>\EVMAI\ ;
48 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
44 52 43 3A 4E 4F 49 54 43 45 53 2F 0C 0002A .ASCII <12>\ /SECTION:CRD\ ;
00 00037 .ASCII <0> ;
35 34 3A 33 30 05 00038 .ASCII <5>\03:45\ ;
    0003E .BLKB 2
  
```

.PSECT \$\$RX180,NOWRT,NOEXE,2

```

00000010 00000 .LONG 16 ;
20 20 20 20 20 20 30 38 31 58 52 0B 00004 P.ABI: .ASCII <11>\RX180 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
07 00017 .BYTE 7 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 4E 52 56 45 05 0001D .ASCII <5>\EVRNB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\ /SECTION:DEFAULT\ ;
    54 4C 00039 ;
  
```

```

00 0003B .ASCII <0>
30 30 3A 34 30 05 0003C .ASCII <5>\04:00\
00042 .BLKB 2

.PSECT $$RX50,NOWRT,NOEXE,2

00000010 00000 .LONG 16
20 20 20 20 20 20 20 30 35 58 52 ; 0B 00004 P.ABH: .ASCII <11>\RX50 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
07 00017 .BYTE 7 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 4E 52 56 45 05 0001D .ASCII <5>\EVRNB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
00 0003B .ASCII <0> ;
30 30 3A 34 30 05 0003C .ASCII <5>\04:00\
00042 .BLKB 2

```

```

.PSECT $$RX32,NOWRT,NOEXE,2

00000010 00000 .LONG 16
20 20 20 20 20 20 20 32 33 58 52 ; 0B 00004 P.ABG: .ASCII <11>\RX32 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
07 00017 .BYTE 7 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 4E 52 56 45 05 0001D .ASCII <5>\EVRNB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
00 0003B .ASCII <0> ;
30 30 3A 34 30 05 0003C .ASCII <5>\04:00\
00042 .BLKB 2

```

```

.PSECT $$RX02,NOWRT,NOEXE,2

00000010 00000 .LONG 16
20 20 20 20 20 20 20 32 30 5P 52 ; 0B 00004 P.ABF: .ASCII <11>\RX02 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;

```

```

    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
    07 00017 .BYTE 7 ;
    01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
    41 49 52 56 45 05 0001D .ASCII <5>\EVRIA\ ;
    4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
    00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 00039 ;
    00 0003B .ASCII <0> ;
    30 30 3A 30 30 05 0003C .ASCII <5>\00:00\ ;
    00042 .BLKB 2 ;
    0000001C 00044 .LONG 28 ;
    20 20 20 20 20 20 20 32 30 58 52 0B 00048 P.ACE: .ASCII <11>\RX02 \ ;
    05 00054 .BYTE 5 ;
    03 00055 .BYTE 3 ;
    01 00056 .BYTE 1 ;
    0000 00057 .WORD 0 ;
    52 32 00059 .ASCII \2R\ ;
    00 0005B .BYTE 0 ;
    02 0005C .BYTE 2 ;
    0000 0005D .WORD 0 ;
    0006 0005F .WORD 6 ;
    41 41 52 56 45 05 00061 .ASCII <5>\EVRAA\ ;
    4B 43 49 55 51 05 00067 .ASCII <5>\QUICK\ ;
    00 0006D .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0006E .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 0007D ;
    6B 73 69 44 04 0007F .ASCII <4>\Disk\ ;
    30 30 3A 30 30 05 00084 .ASCII <5>\00:00\ ;
    0006 0008A .WORD 6 ;
    44 41 52 56 45 05 0008L .ASCII <5>\EVRAD\ ;
    4B 43 49 55 51 05 00092 .ASCII <5>\QUICK\ ;
    00 00098 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00099 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000A8 ;
    6B 73 69 44 04 000AA .ASCII <4>\Disk\ ;
    30 30 3A 30 30 05 000AF .ASCII <5>\00:00\ ;
    000B5 .BLKB 3 ;

.PSECT $$RX31,NOWRT,NOEXE,2

    00000010 00000 .LONG 16 ;
    20 20 20 20 20 20 20 31 33 58 52 0B 00004 P.ABE: .ASCII <11>\RX31 \ ;
    05 00010 .BYTE 5 ;
    03 00011 .BYTE 3 ;
    01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
    07 00017 .BYTE 7 ;
    01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
  
```

```

    42 4E 52 56 45 05 0001D .ASCII <5>\EVRNB\      ;
    4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\      ;
    00 00029 .ASCII <0>      ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\      ;
    54 4C 00039      ;
    00 0003B .ASCII <0>      ;
    30 30 3A 34 30 05 0003C .ASCII <5>\04:00\      ;
    00042 .BLKB 2
    .PSECT $$RCF25,NOWRT,NOEXE,2
    00000018 00000 .LONG 24      ;
20 20 20 20 20 20 35 32 46 43 52 0B 00004 P.ABD: .ASCII <11>\RCF25      \      ;
    05 00010 .BYTE 5      ;
    03 00011 .BYTE 3      ;
    01 00012 .BYTE 1      ;
    0000 00013 .WORD 0      ;
    20 33 00015 .ASCII \3 \      ;
    06 00017 .BYTE 6      ;
    02 00018 .BYTE 2      ;
    0000 00019 .WORD 0      ;
    0006 0001B .WORD 6      ;
    41 4D 52 56 45 05 0001D .ASCII <5>\EVRMA\      ;
    4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\      ;
    00 00029 .ASCII <0>      ;
44 52 43 3A 4E 4F 49 54 43 45 53 2F 0C 0002A .ASCII <12>\SECTION:CRD\      ;
    00 00037 .ASCII <0>      ;
    30 30 3A 31 30 05 00038 .ASCII <5>\01:00\      ;
    0006 0003E .WORD 6      ;
    42 4D 52 56 45 05 00040 .ASCII <5>\EVRMB\      ;
    4B 43 49 55 51 05 00046 .ASCII <5>\QUICK\      ;
    00 0004C .ASCII <0>      ;
44 52 43 3A 4E 4F 49 54 43 45 53 2F 0C 0004D .ASCII <12>\SECTION:CRD\      ;
    00 0005A .ASCII <0>      ;
    30 30 3A 31 30 05 0005B .ASCII <5>\01:00\      ;
    00061 .BLKB 3
    00000011 00064 .LONG 17      ;
20 20 20 20 20 20 35 32 46 43 52 0B 00068 P.ABV: .ASCII <11>\RCF25      \      ;
    05 00074 .BYTE 5      ;
    03 00075 .BYTE 3      ;
    01 00076 .BYTE 1      ;
    0000 00077 .WORD 0      ;
    52 32 00079 .ASCII \2R\      ;
    00 0007B .BYTE 0      ;
    01 0007C .BYTE 1      ;
    0000 0007D .WORD 0      ;
    0006 0007F .WORD 6      ;
    44 4D 52 56 45 05 00081 .ASCII <5>\EVRMD\      ;
    4B 43 49 55 51 05 00087 .ASCII <5>\QUICK\      ;
    00 0008D .ASCII <0>      ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0008E .ASCII <16>\SECTION:DEFAULT\      ;
    54 4C 0009D      ;
    6B 73 69 44 04 0009F .ASCII <4>\Disk\      ;
    30 30 3A 30 30 05 000A4 .ASCII <5>\00:00\      ;
    000AA .BLKB 2
  
```

.PSECT \$\$RC25,NOWRT,NOEXE,2

```

00000019 00000 .LONG 25
20 20 20 20 20 20 20 35 32 43 52 ; 0B 00004 P.ABC: .ASCII <11>\RC25 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
06 00017 .BYTE 6 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 4D 52 56 45 05 0001D .ASCII <5>\EVRMA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0002A .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00039 ;
00 0003B .ASCII <0> ;
30 30 3A 31 30 05 0003C .ASCII <5>\01:00\ ;
0006 00042 .WORD 6 ;
42 4D 52 56 45 05 00044 .ASCII <5>\EVRMB\ ;
4B 43 49 55 51 05 0004A .ASCII <5>\QUICK\ ;
00 00050 .ASCII <0> ;
44 52 43 3A 4E 4F 49 54 43 45 53 2F 0C 00051 .ASCII <12>\SECTION:CRD\ ;
00 0005E .ASCII <0> ;
30 30 3A 31 30 05 0005F .ASCII <5>\01:00\ ;
00065 .BLKB 3 ;
00000011 00068 .LONG 17
20 20 20 20 20 20 20 35 32 43 52 ; 0B 0006C P.ABU: .ASCII <11>\RC25 \ ;
05 00078 .BYTE 5 ;
03 00079 .BYTE 3 ;
01 0007A .BYTE 1 ;
0000 0007B .WORD 0 ;
52 32 0007D .ASCII \2R\ ;
00 0007F .BYTE 0 ;
01 00080 .BYTE 1 ;
0000 00081 .WORD 0 ;
0006 00083 .WORD 6 ;
44 4D 52 56 45 05 00085 .ASCII <5>\EVRMD\ ;
4B 43 49 55 51 05 0008B .ASCII <5>\QUICK\ ;
00 00091 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00092 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 000A1 ;
6B 73 69 44 04 000A3 .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 000A8 .ASCII <5>\00:00\ ;
000AE .BLKB 2

```

.PSECT \$\$DZ32,NOWRT,NOEXE,2

```

0000000C 00000 .LONG 12
20 20 20 20 20 20 20 32 33 5A 44 ; 0B 00004 P.ABB: .ASCII <11>\DZ32 \ ;
04 00010 .BYTE 4 ;
07 00011 .BYTE 7 ;

```

```

01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 41 44 56 45 05 0001D .ASCII <5>\EVDAB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
30 30 3A 36 30 05 0002C .ASCII <5>\06:00\ ;
    00032 .BLKB 2
  
```

.PSECT \$\$XDZ11,NOWRT,NOEXE,2

```

0000000C 00000 .LONG 12 ;
20 20 20 20 20 20 31 31 5A 44 58 0B 00004 P.ABA: .ASCII <11>\XDZ11 \ ;
04 00010 .BYTE 4 ;
07 00011 .BYTE 7 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
41 41 44 56 45 05 0001D .ASCII <5>\EVDAA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
30 30 3A 30 30 05 0002C .ASCII <5>\00:00\ ;
    00032 .BLKB 2
  
```

.PSECT \$\$DUP11,NOWRT,NOEXE,2

```

0000000C 00000 .LONG 12 ;
20 20 20 20 20 20 31 31 50 55 44 0B 00004 P.AAZ: .ASCII <11>\DUP11 \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
50 55 44 56 45 05 0001D .ASCII <5>\EVDUP\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
30 31 3A 30 30 05 0002C .ASCII <5>\00:10\ ;
  
```

00032 .BLKB 2

.PSECT \$\$DMP11,NOWRT,NOEXE,2

```

0000000B 00000 .LONG 11
20 20 20 20 20 20 31 31 50 4D 44 ; 0B 00004 P.AAY: .ASCII <11>\DMP11 \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 4D 44 56 45 05 0001D .ASCII <5>\EVDMB\ ;
00 00023 .ASCII <0> ;
00 00024 .ASCII <0> ;
00 00025 .ASCII <0> ;
00 00026 .ASCII <0> ;
30 30 3A 31 30 05 00027 .ASCII <5>\01:00\ ;
0002D .BLKB 3
  
```

.PSECT \$\$DR11W,NOWRT,NOEXE,2

```

00000015 00000 .LONG 21
20 20 20 20 20 20 57 31 31 52 44 ; 0B 00004 P.AAX: .ASCII <11>\DR11W \ ;
04 00010 .BYTE 4 ;
06 00011 .BYTE 6 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
45 52 44 56 45 05 0001D .ASCII <5>\EVDRE\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
35 31 3A 30 30 05 00032 .ASCII <5>\00:15\ ;
0006 00038 .WORD 6 ;
42 52 44 56 45 05 0003A .ASCII <5>\EVDRB\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
35 31 3A 30 30 05 0004F .ASCII <5>\00:15\ ;
00055 .BLKB 3
00000011 00058 .LONG 17
20 20 20 20 20 20 57 31 31 52 44 ; 0B 0005C P.AB0: .ASCII <11>\DR11W \ ;
04 00068 .BYTE 4 ;
06 00069 .BYTE 6 ;
01 0006A .BYTE 1 ;
  
```



```

    0000 0006B .WORD 0 ;
    20 32 0006D .ASCII \2 \ ;
    00 0006F .BYTE 0 ;
    01 00070 .BYTE 1 ;
    0000 00071 .WORD 0 ;
    0006 00073 .WORD 6 ;
    42 52 44 56 45 05 00075 .ASCII <5>\EVDRB\ ;
    4B 43 49 55 51 05 0007B .ASCII <5>\QUICK\ ;
    00 00081 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00082 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 00091 ;
    57 31 31 52 44 05 00093 .ASCII <5>\DR11W\ ;
    30 30 3A 30 30 05 00099 .ASCII <5>\00:00\ ;
    0009F .BLKB 1

.PSECT $$UNA11,NOWRT,NOEXE,2

0000000B 00000 .LONG 11 ;
20 20 20 20 20 20 31 31 41 4E 55 0B 00004 P.AAW: .ASCII <11>\UNA11 \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
    00 00017 .BYTE 0 ;
    01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
    41 57 44 56 45 05 0001D .ASCII <5>\EVDWA\ ;
    00 00023 .ASCII <0> ;
    00 00024 .ASCII <0> ;
    00 00025 .ASCII <0> ;
    00 00026 .ASCII <0> ;
    30 30 3A 32 30 05 00027 .ASCII <5>\02:00\ ;
    0002D .BLKB 3
00000012 00030 .LONG 18 ;
20 20 20 20 20 20 31 31 41 4E 55 0B 00034 P.ACH: .ASCII <11>\UNA11 \ ;
04 00040 .BYTE 4 ;
05 00041 .BYTE 5 ;
01 00042 .BYTE 1 ;
    0000 00043 .WORD 0 ;
    52 32 00045 .ASCII \2R\ ;
    00 00047 .BYTE 0 ;
    01 00048 .BYTE 1 ;
    0000 00049 .WORD 0 ;
    0006 0004B .WORD 6 ;
    43 57 44 56 45 05 0004D .ASCII <5>\EVDWC\ ;
    4B 43 49 55 51 05 00053 .ASCII <5>\QUICK\ ;
    00 00059 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0005A .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 00069 ;
    72 65 78 45 20 49 4E 07 0006B .ASCII <7>\NI Exer\ ;
    30 30 3A 30 30 05 00073 .ASCII <5>\00:00\ ;
    00079 .BLKB 3
  
```

.PSECT \$\$DMR11,NOWRT,NOEXE,2

```

00000015 00000 .LONG 21
20 20 20 20 20 31 31 52 4D 44 ; 0B 00004 P.AAV: .ASCII <11>\DMR11 \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
02 00018 .BYTE 2 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 58 44 56 45 05 0001D .ASCII <5>\EVDXA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
30 33 3A 30 30 05 00032 .ASCII <5>\00:30\ ;
0006 00038 .WORD 6 ;
41 4D 44 56 45 05 0003A .ASCII <5>\EVDMA\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 33 3A 30 30 05 0004F .ASCII <5>\00:30\ ;
00055 .BLKB 3

```

.PSECT \$\$DMF32P,NOWRT,NOEXE,2

```

0000000D 00000 .LONG 13
20 20 20 20 20 50 32 33 46 4D 44 ; 0B 00004 P.AAU: .ASCII <11>\DMF32P \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
44 4C 44 56 45 05 0001D .ASCII <5>\EVDLD\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
4F 42 4D 4F 43 05 0002B .ASCII <5>\COMBO\ ;
30 33 3A 30 30 05 00031 .ASCII <5>\00:30\ ;
00037 .BLKB 1

```

.PSECT \$\$DMF32A,NOWRT,NOEXE,2

```

0000000D 00000 .LONG 13
20 20 20 20 20 41 32 33 46 4D 44 ; 0B 00004 P.AAT: .ASCII <11>\DMF32A \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;

```

```

01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
43 4C 44 56 45 05 0001D .ASCII <5>\EVDLC\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
4F 42 4D 4F 43 05 0002B .ASCII <5>\COMBO\ ;
30 33 3A 30 30 05 00031 .ASCII <5>\00:30\ ;
00037 .BLKB 1
  
```

.PSECT \$\$DMF32S,NOWRT,NOEXE,2

```

0000000D 00000 .LONG 13 ;
20 20 20 20 20 53 32 33 46 4D 44 0B 00004 P.AAS: .ASCII <11>\DMF32S \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 4C 44 56 45 05 0001D .ASCII <5>\EVDLB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
4F 42 4D 4F 43 05 0002B .ASCII <5>\COMBO\ ;
30 30 3A 31 30 05 00031 .ASCII <5>\01:00\ ;
00037 .BLKB 1
  
```

```

00000011 00038 .LONG 17 ;
20 20 20 20 20 53 32 33 46 4D 44 0B 0003C P.ABN: .ASCII <11>\DMF32S \ ;
04 00048 .BYTE 4 ;
05 00049 .BYTE 5 ;
01 0004A .BYTE 1 ;
    0000 0004B .WORD 0 ;
52 32 0004D .ASCII \2R\ ;
00 0004F .BYTE 0 ;
01 00050 .BYTE 1 ;
    0000 00051 .WORD 0 ;
    0006 00053 .WORD 6 ;
41 4C 44 56 45 05 00055 .ASCII <5>\EVDLA\ ;
4B 43 49 55 51 05 0005B .ASCII <5>\QUICK\ ;
00 00061 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00062 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00071 ;
53 32 33 46 4D 44 06 00073 .ASCII <6>\DMF32S\ ;
30 30 3A 30 30 05 0007A .ASCII <5>\00:00\ ;
  
```

.PSECT \$\$DHU11,NOWRT,NOEXE,2

```
0000000C 00000 .LONG 12
20 20 20 20 20 20 31 31 55 48 44 ; 0B 00004 P.AAR: .ASCII <11>\DHU11 \ ;
04 00010 .BYTE 4 ;
05 00011 .BYTE 5 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
49 41 44 56 45 05 0001D .ASCII <5>\EVDAI\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
30 33 3A 30 30 05 0002C .ASCII <5>\00:30\ ;
00032 .BLKB 2
```

.PSECT \$\$RA81,NOWRT,NOEXE,2

```
0000000F 00000 .LONG 15
20 20 20 20 20 20 20 31 38 41 52 ; 0B 00004 P.AAQ: .ASCII <11>\RA81 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
04 00017 .BYTE 4 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 4C 52 56 45 05 0001D .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 0002A .ASCII <14>\SECTION:CRD12\ ;
00 00039 .ASCII <0> ;
30 33 3A 31 30 05 0003A .ASCII <5>\01:30\ ;
```

.PSECT \$\$RA80,NOWRT,NOEXE,2

```
0000000F 00000 .LONG 15
20 20 20 20 20 20 20 30 38 41 52 ; 0B 00004 P.AAP: .ASCII <11>\RA80 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
04 00017 .BYTE 4 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 4C 52 56 45 05 0001D .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
```

```

00 00029 .ASCII <0> ;
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 0002A .ASCII <14>\SECTION:CRD12\ ;
00 00039 .ASCII <0> ;
35 34 3A 32 30 05 0003A .ASCII <5>\02:45\ ;

```

.PSECT \$\$RA60,NOWRT,NOEXE,2

```

0000000F 00000 .LONG 15 ;
20 20 20 20 20 20 20 30 36 41 52 0B 00004 P.AAO: .ASCII <11>\RA60 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
01 00017 .BYTE 1 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 4C 52 56 45 05 0001D .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 0002A .ASCII <14>\SECTION:CRD12\ ;
00 00039 .ASCII <0> ;
30 30 3A 31 30 05 0003A .ASCII <5>\01:00\ ;

```

.PSECT \$\$R80,NOWRT,NOEXE,2

```

0000000C 00000 .LONG 12 ;
20 20 20 20 20 20 20 30 38 52 0B 00004 P.AAN: .ASCII <11>\R80 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
04 00017 .BYTE 4 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
44 41 52 56 45 05 0001D .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
30 30 3A 31 30 05 0002C .ASCII <5>\01:00\ ;
00032 .BLKB 2 ;

```

.PSECT \$\$RL02,NOWRT,NOEXE,2

```

0000000C 00000 .LONG 12 ;
20 20 20 20 20 20 20 32 30 4C 52 0B 00004 P.AAM: .ASCII <11>\RL02 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;

```

```

01 00017 .BYTE 1 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
44 41 52 56 45 05 0001D .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
35 34 3A 30 30 05 0002C .ASCII <5>\00:45\ ;
00032 .BLKB 2

.PSECT $$RK07,NOWRT,NOEXE,2

0000000C 00000 .LONG 12 ;
20 20 20 20 20 20 20 37 30 4B 52 0B 00004 P.AAL: .ASCII <11>\RK07 \ ;
05 00010 .BYTE 5 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
01 00017 .BYTE 1 ;
01 00018 .BYTE 1 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
44 41 52 56 45 05 0001D .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
00 0002B .ASCII <0> ;
35 34 3A 30 30 05 0002C .ASCII <5>\00:45\ ;
00032 .BLKB 2

0000001C 00034 .LONG 28 ;
20 20 20 20 20 20 20 37 30 4B 52 0B 00038 P.ABX: .ASCII <11>\RK07 \ ;
05 00044 .BYTE 5 ;
03 00045 .BYTE 3 ;
01 00046 .BYTE 1 ;
0000 00047 .WORD 0 ;
52 32 00049 .ASCII \2R\ ;
00 0004B .BYTE 0 ;
02 0004C .BYTE 2 ;
0000 0004D .WORD 0 ;
0006 0004F .WORD 6 ;
41 41 52 56 45 05 00051 .ASCII <5>\EVRAA\ ;
4B 43 49 55 51 05 00057 .ASCII <5>\QUICK\ ;
00 0005D .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0005E .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 0006D ;
6B 73 69 44 04 0006F .ASCII <4>\Disk\ ;
30 30 3A 30 30 05 00074 .ASCII <5>\00:00\ ;
0006 0007A .WORD 6 ;
44 41 52 56 45 05 0007C .ASCII <5>\EVRAD\ ;
4B 43 49 55 51 05 00082 .ASCII <5>\QUICK\ ;
00 00088 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00089 .ASCII <16>\SECTION:DEFAULT\ ;

```

```

    54 4C 00098
6B 73 69 44 04 0009A .ASCII <4>\Disk\
    30 30 3A 30 30 05 0009F .ASCII <5>\00:00\
    000A5 .BLKB 3

.PSECT $$RK711,NOWRT,NOEXE,2

    0000002A 00000 .LONG 42
20 20 20 20 20 20 31 31 37 4B 52 0B 00004 P.AAK: .ASCII <11>\RK711
    04 00010 .BYTE 4
    03 00011 .BYTE 3
    01 00012 .BYTE 1
    0000 00013 .WORD 0
    20 33 00015 .ASCII \3 \
    00 00017 .BYTE 0
    05 00018 .BYTE 5
    0000 00019 .WORD 0
    0006 0001B .WORD 6
    41 45 52 56 45 05 0001D .ASCII <5>\EVREA\
    4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\
    00 00029 .ASCII <0>
    00 0002A .ASCII <0>
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\
    30 33 3A 30 30 05 00032 .ASCII <5>\00:30\
    0006 00038 .WORD 6
    42 45 52 56 45 05 0003A .ASCII <5>\EVREB\
    4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\
    00 00046 .ASCII <0>
    00 00047 .ASCII <0>
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\
    30 33 3A 31 30 05 0004F .ASCII <5>\01:30\
    0006 00055 .WORD 6
    43 45 52 56 45 05 00057 .ASCII <5>\EVREC\
    4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\
    00 00063 .ASCII <0>
    00 00064 .ASCII <0>
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\
    30 33 3A 31 30 05 0006C .ASCII <5>\01:30\
    0006 00072 .WORD 6
    44 45 52 56 45 05 00074 .ASCII <5>\EVRED\
    4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\
    00 00080 .ASCII <0>
    00 00081 .ASCII <0>
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\
    30 33 3A 30 30 05 00089 .ASCII <5>\00:30\
    0006 0008F .WORD 6
    45 45 52 56 45 05 00091 .ASCII <5>\EVREE\
    4B 43 49 55 51 05 00097 .ASCII <5>\QUICK\
    00 0009D .ASCII <0>
    00 0009E .ASCII <0>
35 20 54 52 41 50 06 0009F .ASCII <6>\PART 5\
    35 34 3A 31 30 05 000A6 .ASCII <5>\01:45\

.PSECT $$RK611,NOWRT,NOEXE,2
  
```

```

0000002A 00000 .LONG 42
20 20 20 20 20 31 31 36 4B 52 ; 0B 00004 P.AAJ: .ASCII <11>\RK611 \ ;
04 00010 .BYTE 4 ;
03 00011 .BYTE 3 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
05 00018 .BYTE 5 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
41 45 52 56 45 05 0001D .ASCII <5>\EVREA\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
30 33 3A 30 30 05 00032 .ASCII <5>\00:30\ ;
0006 00038 .WORD 6 ;
42 45 52 56 45 05 0003A .ASCII <5>\EVREB\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 33 3A 31 30 05 0004F .ASCII <5>\01:30\ ;
0006 00055 .WORD 6 ;
43 45 52 56 45 05 00057 .ASCII <5>\EVREC\ ;
4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\ ;
00 00063 .ASCII <0> ;
00 00064 .ASCII <0> ;
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
30 33 3A 31 30 05 0006C .ASCII <5>\01:30\ ;
0006 00072 .WORD 6 ;
44 45 52 56 45 05 00074 .ASCII <5>\EVRED\ ;
4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\ ;
00 00080 .ASCII <0> ;
00 00081 .ASCII <0> ;
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\ ;
30 33 3A 30 30 05 00089 .ASCII <5>\00:30\ ;
0006 0008F .WORD 6 ;
45 45 52 56 45 05 00091 .ASCII <5>\EVREE\ ;
4B 43 49 55 51 05 00097 .ASCII <5>\QUICK\ ;
00 0009D .ASCII <0> ;
00 0009E .ASCII <0> ;
35 20 54 52 41 50 06 0009F .ASCII <6>\PART 5\ ;
35 34 3A 31 30 05 000A6 .ASCII <5>\01:45\ ;

```

.PSECT \$\$TU81,NOWRT,NOEXE,2

```

00000010 00000 .LONG 16
20 20 20 20 20 20 20 31 38 55 54 ; 0B 00004 P.AAI: .ASCII <11>\TU81 \ ;
05 00010 .BYTE 5 ;
04 00011 .BYTE 4 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;

```



```

00 00017 .BYTE 0 ;
01 00018 .BYTE 1 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 42 4D 56 45 05 0001D .ASCII <5>\EVMBB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
54 4C 55 41 46 45 44 3A 43 45 53 2F 0C 0002A .ASCII <12>\SEC:DEFAULT\ ;
31 20 54 52 41 50 06 00037 .ASCII <6>\PART 1\ ;
30 33 3A 33 30 05 0003E .ASCII <5>\03:30\ ;
00000011 00044 .LONG 17 ;
20 20 20 20 20 20 20 31 38 55 54 0B 00048 P.ACG: .ASCII <11>\TU81 \ ;
05 00054 .BYTE 5 ;
04 00055 .BYTE 4 ;
01 00056 .BYTE 1 ;
    0000 00057 .WORD 0 ;
    52 32 00059 .ASCII \2R\ ;
03 0005B .BYTE 3 ;
01 0005C .BYTE 1 ;
    0001 0005D .WORD 1 ;
    0006 0005F .WORD 6 ;
41 42 4D 56 45 05 00061 .ASCII <5>\EVMBA\ ;
4B 43 49 55 51 05 00067 .ASCII <5>\QUICK\ ;
00 0006D .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0006E .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 0007D ;
65 70 61 54 04 0007F .ASCII <4>\Tape\ ;
35 34 3A 33 30 05 00084 .ASCII <5>\03:45\ ;
0008A .BLKB 2 ;

.PSECT $$TU80,NOWRT,NOEXE.2

0000001A 00000 .LONG 26 ;
20 20 20 20 20 20 20 30 38 55 54 0B 00004 P.AAH: .ASCII <11>\TU80 \ ;
05 00010 .BYTE 5 ;
04 00011 .BYTE 4 ;
01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
03 00017 .BYTE 3 ;
02 00018 .BYTE 2 ;
    0001 00019 .WORD 1 ;
    0006 0001B .WORD 6 ;
44 42 4D 56 45 05 0001D .ASCII <5>\EVMBD\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
54 4C 55 41 46 45 44 3A 43 45 53 2F 0C 0002A .ASCII <12>\SEC:DEFAULT\ ;
31 20 54 52 41 50 06 00037 .ASCII <6>\PART 1\ ;
30 33 3A 33 30 05 0003E .ASCII <5>\03:30\ ;
    0006 00044 .WORD 6 ;
45 42 4D 56 45 05 00046 .ASCII <5>\EVMBE\ ;
4B 43 49 55 51 05 0004C .ASCII <5>\QUICK\ ;
00 00052 .ASCII <0> ;
44 52 43 3A 43 45 53 2F 08 00053 .ASCII <8>\SEC:CRD\ ;
32 20 54 52 41 50 06 0005C .ASCII <6>\PART 2\ ;

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30 33 3A 33 30 05 00063 .ASCII <5>\03:30\
 00069 .BLKB 3 ;

.PSECT \$\$TS11,NOWRT,NOEXE,2

0000000C 00000 .LONG 12 ;
 20 20 20 20 20 20 20 31 31 53 54 ; 0B 00004 P.AAG: .ASCII <11>\TS11 \ ;
 05 00010 .BYTE 5 ;
 04 00011 .BYTE 4 ;
 01 00012 .BYTE 1 ;
 0000 00013 .WORD 0 ;
 20 33 00015 .ASCII \3 \ ;
 03 00017 .BYTE 3 ;
 01 00018 .BYTE 1 ;
 0001 00019 .WORD 1 ;
 0006 0001B .WORD 6 ;
 44 41 4D 56 45 05 0001D .ASCII <5>\EVMAD\ ;
 4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
 00 00029 .ASCII <0> ;
 00 0002A .ASCII <0> ;
 00 0002B .ASCII <0> ;
 30 33 3A 37 30 05 0002C .ASCII <5>\07:30\
 00032 .BLKB 2 ;

.PSECT \$\$KA86,NOWRT,NOEXE,2

00000023 00000 .LONG 35 ;
 20 20 20 20 20 20 20 36 38 41 4B ; 0B 00004 P.AAF: .ASCII <11>\KA86 \ ;
 01 00010 .BYTE 1 ;
 01 00011 .BYTE 1 ;
 01 00012 .BYTE 1 ;
 0000 00013 .WORD 0 ;
 20 33 00015 .ASCII \3 \ ;
 00 00017 .BYTE 0 ;
 04 00018 .BYTE 4 ;
 0000 00019 .WORD 0 ;
 0006 0001B .WORD 6 ;
 42 41 4B 56 45 05 0001D .ASCII <5>\EVKAB\ ;
 4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
 00 00029 .ASCII <0> ;
 00 0002A .ASCII <0> ;
 31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\
 30 30 3A 32 30 05 00032 .ASCII <5>\02:00\
 0006 00038 .WORD 6 ;
 43 41 4B 56 45 05 0003A .ASCII <5>\EVKAC\
 4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\
 00 00046 .ASCII <0> ;
 00 00047 .ASCII <0> ;
 32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\
 30 30 3A 33 30 05 0004F .ASCII <5>\03:00\
 0006 00055 .WORD 6 ;
 44 41 4B 56 45 05 00057 .ASCII <5>\EVKAD\
 4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\
 00 00063 .ASCII <0> ;
 00 00064 .ASCII <0> ;

```

33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
    35 34 3A 32 30 05 0006C .ASCII <5>\02:45\ ;
        0006 00072 .WORD 6 ;
    45 41 4B 56 45 05 00074 .ASCII <5>\EVKAE\ ;
    4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\ ;
    00 00080 .ASCII <0> ;
    00 00081 .ASCII <0> ;
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\ ;
    30 30 3A 32 30 05 00089 .ASCII <5>\02:00\ ;
        0008F .BLKB 1 ;
        00000029 00090 .LONG 41 ;
20 20 20 20 20 20 20 36 38 41 4B 0B 00094 P.ABT: .ASCII <11>\KA86 \ ;
    01 000A0 .BYTE 1 ;
    01 000A1 .BYTE 1 ;
    01 000A2 .BYTE 1 ;
        0000 000A3 .WORD 0 ;
    52 32 000A5 .ASCII \2R\ ;
    00 000A7 .BYTE 0 ;
    03 000A8 .BYTE 3 ;
        0000 000A9 .WORD 0 ;
        0006 000AB .WORD 6 ;
    42 41 4B 56 45 05 000AD .ASCII <5>\EVKAB\ ;
    4B 43 49 55 51 05 000B3 .ASCII <5>\QUICK\ ;
    00 000B9 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000BA .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000C9 ;
49 20 74 72 61 50 06 000CB .ASCII <6>\Part I\ ;
    35 34 3A 30 30 05 000D2 .ASCII <5>\00:45\ ;
        0006 000D8 .WORD 6 ;
    43 41 4B 56 45 05 000DA .ASCII <5>\EVKAC\ ;
    4B 43 49 55 51 05 000E0 .ASCII <5>\QUICK\ ;
    00 000E6 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000E7 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000F6 ;
49 49 20 74 72 61 50 07 000F8 .ASCII <7>\Part II\ ;
    30 30 3A 31 30 05 00100 .ASCII <5>\01:00\ ;
        0006 00106 .WORD 6 ;
    44 41 4B 56 45 05 00108 .ASCII <5>\EVKAD\ ;
    4B 43 49 55 51 05 0010E .ASCII <5>\QUICK\ ;
    00 00114 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00115 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 00124 ;
49 49 20 74 72 61 50 08 00126 .ASCII <8>\Part III\ ;
    30 30 3A 32 30 05 0012F .ASCII <5>\02:00\ ;
        00135 .BLKB 3 ;

.PSECT $$KA820,NOWRT,NOEXE,2

0000001C 00000 .LONG 28 ;
20 20 20 20 20 20 30 32 38 41 4B 0B 00004 P.AAE: .ASCII <11>\KA820 \ ;
    01 00010 .BYTE 1 ;
    01 00011 .BYTE 1 ;
    01 00012 .BYTE 1 ;
        0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
  
```

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00 00017 .BYTE 0 ;
03 00018 .BYTE 3 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;
42 41 4B 56 45 05 0001D .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
30 30 3A 32 30 05 00032 .ASCII <5>\02:00\ ;
    0006 00038 .WORD 6 ;
43 41 4B 56 45 05 0003A .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 30 3A 33 30 05 0004F .ASCII <5>\03:00\ ;
    0006 00055 .WORD 6 ;
45 41 4B 56 45 05 00057 .ASCII <5>\EVKAE\ ;
4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\ ;
00 00063 .ASCII <0> ;
00 00064 .ASCII <0> ;
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
30 30 3A 32 30 05 0006C .ASCII <5>\02:00\ ;
    00072 .BLKB 2 ;
    0000001D 00074 .LONG 29 ;
20 20 20 20 20 20 30 32 38 41 4B 0B 00078 P.ABS: .ASCII <11>\KA820 \ ;
01 00084 .BYTE 1 ;
01 00085 .BYTE 1 ;
01 00086 .BYTE 1 ;
    0000 00087 .WORD 0 ;
    52 32 00089 .ASCII \2R\ ;
00 0008B .BYTE 0 ;
02 0008C .BYTE 2 ;
    0000 0008D .WORD 0 ;
    0006 0008F .WORD 6 ;
42 41 4B 56 45 05 00091 .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 00097 .ASCII <5>\QUICK\ ;
00 0009D .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 0009E .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000AD ;
49 20 74 72 61 50 06 000AF .ASCII <6>\Part I\ ;
35 34 3A 30 30 05 000B6 .ASCII <5>\00:45\ ;
    0006 000BC .WORD 6 ;
43 41 4B 56 45 05 000BE .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 000C4 .ASCII <5>\QUICK\ ;
00 000CA .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000CB .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000DA ;
49 49 20 74 72 61 50 07 000DC .ASCII <7>\Part II\ ;
30 30 3A 31 30 05 000E4 .ASCII <5>\01:00\ ;
    000EA .BLKB 2 ;

.PSECT $$KA780,NOWRT,NOEXE,2
  
```

```
00000023 00000 .LONG 35
20 20 20 20 20 20 30 38 37 41 4B ; 0B 00004 P.AAD: .ASCII <11>\KA780 \ ;
01 00010 .BYTE 1 ;
01 00011 .BYTE 1 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
04 00018 .BYTE 4 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 41 4B 56 45 05 0001D .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
30 30 3A 32 30 05 00032 .ASCII <5>\02:00\ ;
0006 00038 .WORD 6 ;
43 41 4B 56 45 05 0003A .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 30 3A 33 30 05 0004F .ASCII <5>\03:00\ ;
0006 00055 .WORD 6 ;
44 41 4B 56 45 05 00057 .ASCII <5>\EVKAD\ ;
4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\ ;
00 00063 .ASCII <0> ;
00 00064 .ASCII <0> ;
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
35 34 3A 32 30 05 0006C .ASCII <5>\02:45\ ;
0006 00072 .WORD 6 ;
45 41 4B 56 45 05 00074 .ASCII <5>\EVKAE\ ;
4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\ ;
00 00080 .ASCII <0> ;
00 00081 .ASCII <0> ;
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\ ;
30 30 3A 32 30 05 00089 .ASCII <5>\02:00\ ;
0008F .BLKB 1 ;
00000029 00090 .LONG 41
20 20 20 20 20 20 30 38 37 41 4B ; 0B 00094 P.ABR: .ASCII <11>\KA780 \ ;
01 000A0 .BYTE 1 ;
01 000A1 .BYTE 1 ;
01 000A2 .BYTE 1 ;
0000 000A3 .WORD 0 ;
52 32 000A5 .ASCII \2R\ ;
00 000A7 .BYTE 0 ;
03 000A8 .BYTE 3 ;
0000 000A9 .WORD 0 ;
0006 000AB .WORD 6 ;
42 41 4B 56 45 05 000AD .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 000B3 .ASCII <5>\QUICK\ ;
00 000B9 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000BA .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 000C9 ;
```

```
49 20 74 72 61 50 06 000CB .ASCII <6>\Part I\ ;
35 34 3A 30 30 05 000D2 .ASCII <5>\00:45\ ;
0006 000D8 .WORD 6 ;
43 41 4B 56 45 05 000DA .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 000E0 .ASCII <5>\QUICK\ ;
00 000E6 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000E7 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 000F6 ;
49 49 20 74 72 61 50 07 000F8 .ASCII <7>\Part II\ ;
30 30 3A 31 30 05 00100 .ASCII <5>\01:00\ ;
0006 00106 .WORD 6 ;
44 41 4B 56 45 05 00108 .ASCII <5>\EVKAD\ ;
4B 43 49 55 51 05 0010E .ASCII <5>\QUICK\ ;
00 00114 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00115 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 00124 ;
49 49 49 20 74 72 61 50 08 00126 .ASCII <8>\Part III\ ;
30 30 3A 32 30 05 0012F .ASCII <5>\02:00\ ;
00135 .BLKB 3
```

.PSECT \$\$KA750,NOWRT,NOEXE,2

```
00000023 00000 .LONG 35 ;
20 20 20 20 20 20 30 35 37 41 4B 0B 00004 P.AAC: .ASCII <11>\KA750 \ ;
01 00010 .BYTE 1 ;
01 00011 .BYTE 1 ;
01 00012 .BYTE 1 ;
0000 00013 .WORD 0 ;
20 33 00015 .ASCII \3 \ ;
00 00017 .BYTE 0 ;
04 00018 .BYTE 4 ;
0000 00019 .WORD 0 ;
0006 0001B .WORD 6 ;
42 41 4B 56 45 05 0001D .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
30 30 3A 32 30 05 00032 .ASCII <5>\02:00\ ;
0006 00038 .WORD 6 ;
43 41 4B 56 45 05 0003A .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 30 3A 33 30 05 0004F .ASCII <5>\03:00\ ;
0006 00055 .WORD 6 ;
44 41 4B 56 45 05 00057 .ASCII <5>\EVKAD\ ;
4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\ ;
00 00063 .ASCII <0> ;
00 00064 .ASCII <0> ;
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
35 34 3A 32 30 05 0006C .ASCII <5>\02:45\ ;
0006 00072 .WORD 6 ;
45 41 4B 56 45 05 00074 .ASCII <5>\EVKAE\ ;
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    4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\ ;
    00 00080 .ASCII <0> ;
    00 00081 .ASCII <0> ;
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\ ;
    30 30 3A 32 30 05 00089 .ASCII <5>\02:00\ ;
    0008F .BLKB 1
    00000029 00090 .LONG 41 ;
20 20 20 20 20 20 30 35 37 41 4B 0B 00094 P.ABQ: .ASCII <11>\KA750 \ ;
    01 000A0 .BYTE 1 ;
    01 000A1 .BYTE 1 ;
    01 000A2 .BYTE 1 ;
    0000 000A3 .WORD 0 ;
    52 32 000A5 .ASCII \2R\ ;
    00 000A7 .BYTE 0 ;
    03 000A8 .BYTE 3 ;
    0000 000A9 .WORD 0 ;
    0006 000AB .WORD 6 ;
    42 41 4B 56 45 05 000AD .ASCII <5>\EVKAB\ ;
    4B 43 49 55 51 05 000B3 .ASCII <5>\QUICK\ ;
    00 000B9 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000BA .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000C9 ;
49 20 74 72 61 50 06 000CB .ASCII <6>\Part I\ ;
    35 34 3A 30 30 05 000D2 .ASCII <5>\00:45\ ;
    0006 000D8 .WORD 6 ;
    43 41 4B 56 45 05 000DA .ASCII <5>\EVKAC\ ;
    4B 43 49 55 51 05 000E0 .ASCII <5>\QUICK\ ;
    00 000E6 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000E7 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 000F6 ;
49 49 20 74 72 61 50 07 000F8 .ASCII <7>\Part II\ ;
    30 30 3A 31 30 05 00100 .ASCII <5>\01:00\ ;
    0006 00106 .WORD 6 ;
    44 41 4B 56 45 05 00108 .ASCII <5>\EVKAD\ ;
    4B 43 49 55 51 05 0010E .ASCII <5>\QUICK\ ;
    00 00114 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00115 .ASCII <16>\SECTION:DEFAULT\ ;
    54 4C 00124 ;
49 49 49 20 74 72 61 50 08 00126 .ASCII <8>\Part III\ ;
    30 30 3A 32 30 05 0012F .ASCII <5>\02:00\ ;
    00135 .BLKB 3

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.PSECT \$\$KA730,NOWRT,NOEXE,2

```

    0000002A 00000 .LONG 42 ;
20 20 20 20 20 20 30 33 37 41 4B 0B 00004 P.AAB: .ASCII <11>\KA730 \ ;
    01 00010 .BYTE 1 ;
    01 00011 .BYTE 1 ;
    01 00012 .BYTE 1 ;
    0000 00013 .WORD 0 ;
    20 33 00015 .ASCII \3 \ ;
    00 00017 .BYTE 0 ;
    05 00018 .BYTE 5 ;
    0000 00019 .WORD 0 ;
    0006 0001B .WORD 6 ;

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58 41 4B 4E 45 05 0001D .ASCII <5>\ENKAX\ ;
4B 43 49 55 51 05 00023 .ASCII <5>\QUICK\ ;
00 00029 .ASCII <0> ;
00 0002A .ASCII <0> ;
31 20 54 52 41 50 06 0002B .ASCII <6>\PART 1\ ;
35 34 3A 30 30 05 00032 .ASCII <5>\00:45\ ;
0006 00038 .WORD 6 ;
42 41 4B 56 45 05 0003A .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 00040 .ASCII <5>\QUICK\ ;
00 00046 .ASCII <0> ;
00 00047 .ASCII <0> ;
32 20 54 52 41 50 06 00048 .ASCII <6>\PART 2\ ;
30 30 3A 32 30 05 0004F .ASCII <5>\02:00\ ;
0006 00055 .WORD 6 ;
43 41 4B 56 45 05 00057 .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 0005D .ASCII <5>\QUICK\ ;
00 00063 .ASCII <0> ;
00 00064 .ASCII <0> ;
33 20 54 52 41 50 06 00065 .ASCII <6>\PART 3\ ;
30 30 3A 33 30 05 0006C .ASCII <5>\03:00\ ;
0006 00072 .WORD 6 ;
44 41 4B 56 45 05 00074 .ASCII <5>\EVKAD\ ;
4B 43 49 55 51 05 0007A .ASCII <5>\QUICK\ ;
00 00080 .ASCII <0> ;
00 00081 .ASCII <0> ;
34 20 54 52 41 50 06 00082 .ASCII <6>\PART 4\ ;
35 34 3A 32 30 05 00089 .ASCII <5>\02:45\ ;
0006 0008F .WORD 6 ;
45 41 4B 56 45 05 00091 .ASCII <5>\EVKAE\ ;
4B 43 49 55 51 05 00097 .ASCII <5>\QUICK\ ;
00 0009D .ASCII <0> ;
00 0009E .ASCII <0> ;
35 20 54 52 41 50 06 0009F .ASCII <6>\PART 5\ ;
30 30 3A 32 30 05 000A6 .ASCII <5>\02:00\ ;
00000029 000AC .LONG 41 ;
20 20 20 20 20 20 30 33 37 41 4B 0B 000B0 P.ABP: .ASCII <11>\KA730 \ ;
01 000BC .BYTE 1 ;
01 000BD .BYTE 1 ;
01 000BE .BYTE 1 ;
0000 000BF .WORD 0 ;
52 32 000C1 .ASCII \2R\ ;
00 000C3 .BYTE 0 ;
03 000C4 .BYTE 3 ;
0000 000C5 .WORD 0 ;
0006 000C7 .WORD 6 ;
42 41 4B 56 45 05 000C9 .ASCII <5>\EVKAB\ ;
4B 43 49 55 51 05 000CF .ASCII <5>\QUICK\ ;
00 000D5 .ASCII <0> ;
55 41 46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 000D6 .ASCII <16>\SECTION:DEFAULT\ ;
54 4C 000E5 ;
49 20 54 52 41 50 06 000E7 .ASCII <6>\PART I\ ;
35 34 3A 30 30 05 000EE .ASCII <5>\00:45\ ;
0006 000F4 .WORD 6 ;
43 41 4B 56 45 05 000F6 .ASCII <5>\EVKAC\ ;
4B 43 49 55 51 05 000FC .ASCII <5>\QUICK\ ;

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55 41 00 00102 .ASCII <0>
      46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00103 .ASCII <16>\SECTION:DEFAULT\
      54 4C 00112
49 49 20 54 52 41 50 07 00114 .ASCII <7>\PART II\
30 30 3A 31 30 05 0011C .ASCII <5>\01:00\
      0006 00122 .WORD 6
44 41 4B 56 45 05 00124 .ASCII <5>\EVKAD\
4B 43 49 55 51 05 0012A .ASCII <5>\QUICK\
55 41 00 00130 .ASCII <0>
      46 45 44 3A 4E 4F 49 54 43 45 53 2F 10 00131 .ASCII <16>\SECTION:DEFAULT\
      54 4C 00140
49 49 20 54 52 41 50 08 00142 .ASCII <8>\PART III\
30 30 3A 32 30 05 0014B .ASCII <5>\02:00\
      00151 .BLKB 3

```

.PSECT \$\$\$\$,NOWRT,NOEXE,2

```

32 30 00000005 00000 .LONG 5
      56 20 20 3D 20 6E 6F 69 73 72 65 56 13 00004 P.AAA: .ASCII <19>\Version = V02.0 \
      20 20 20 30 2E 00013

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```

CRD$GA_SUPPORT_DBASE_ID==
P.AAA
CRD$GA_SUPBLK_L3__KA730==
P.AAB
CRD$GA_SUPBLK_L3__KA750==
P.AAC
CRD$GA_SUPBLK_L3__KA780==
P.AAD
CRD$GA_SUPBLK_L3__KA820==
P.AAE
CRD$GA_SUPBLK_L3__KA86==
P.AAF
CRD$GA_SUPBLK_L3__TS11==
P.AAG
CRD$GA_SUPBLK_L3__TU80==
P.AAH
CRD$GA_SUPBLK_L3__TU81==
P.AAI
CRD$GA_SUPBLK_L3__RK611==
P.AAJ
CRD$GA_SUPBLK_L3__RK711==
P.AAK
CRD$GA_SUPBLK_L3__RK07==
P.AAL
CRD$GA_SUPBLK_L3__RL02==
P.AAM
CRD$GA_SUPBLK_L3__R80==
P.AAN
CRD$GA_SUPBLK_L3__RA60==
P.AAO
CRD$GA_SUPBLK_L3__RA80==
P.AAP
CRD$GA_SUPBLK_L3__RA81==
P.AAQ

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CRD\$GA_SUPBLK_L3__DHU11==

P.AAR

CRD\$GA_SUPBLK_L3__DMF32S==

P.AAS

CRD\$GA_SUPBLK_L3__DMF32A==

P.AAT

CRD\$GA_SUPBLK_L3__DMF32P==

P.AAU

CRD\$GA_SUPBLK_L3__DMR11==

P.AAV

CRD\$GA_SUPBLK_L3__UNA11==

P.AAW

CRD\$GA_SUPBLK_L3__DR11W==

P.AAX

CRD\$GA_SUPBLK_L3__DMP11==

P.AAY

CRD\$GA_SUPBLK_L3__DUP11==

P.AAZ

CRD\$GA_SUPBLK_L3__XDZ11==

P.ABA

CRD\$GA_SUPBLK_L3__DZ32==

P.ABB

CRD\$GA_SUPBLK_L3__RC25==

P.ABC

CRD\$GA_SUPBLK_L3__RCF25==

P.ABD

CRD\$GA_SUPBLK_L3__RX31==

P.ABE

CRD\$GA_SUPBLK_L3__RX02==

P.ABF

CRD\$GA_SUPBLK_L3__RX32==

P.ABG

CRD\$GA_SUPBLK_L3__RX50==

P.ABH

CRD\$GA_SUPBLK_L3__RX180==

P.ABI

CRD\$GA_SUPBLK_L3__TS05==

P.ABJ

CRD\$GA_SUPBLK_L3__VS100==

P.ABK

CRD\$GA_SUPBLK_L3__BCI750==

P.ABL

CRD\$GA_SUPBLK_L3__DWBUA==

P.ABM

CRD\$GA_SUPBLK_L2R_DMF32S==

P.ABN

CRD\$GA_SUPBLK_L2__DR11W==

P.ABO

CRD\$GA_SUPBLK_L2R_KA730=-

P.ABP

CRD\$GA_SUPBLK_L2R_KA750==

P.ABQ

CRD\$GA_SUPBLK_L2R_KA780==

P.ABR

CRD\$GA_SUPBLK_L2R_KA820==

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P.ABS
CRD$GA_SUPBLK_L2R_KA86==
P.ABT
CRD$GA_SUPBLK_L2R_RC25==
P.ABU
CRD$GA_SUPBLK_L2R_RCF25==
P.ABV
CRD$GA_SUPBLK_L2R_RK06==
P.ABW
CRD$GA_SUPBLK_L2R_RK07==
P.ABX
CRD$GA_SUPBLK_L2R_RM03==
P.ABY
CRD$GA_SUPBLK_L2R_RM05==
P.ABZ
CRD$GA_SUPBLK_L2R_RM80==
P.ACA
CRD$GA_SUPBLK_L2R_RK05==
P.ACB
CRD$GA_SUPBLK_L2R_RP06==
P.ACC
CRD$GA_SUPBLK_L2R_RP07==
P.ACD
CRD$GA_SUPBLK_L2R_RX02==
P.ACE
CRD$GA_SUPBLK_L2R_TU58=-
P.ACF
CRD$GA_SUPBLK_L2R_TU81==
P.ACG
CRD$GA_SUPBLK_L2R_UNA11==
P.ACH

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PSECT SUMMARY

Name	Bytes	Attributes
\$\$\$\$	24	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$KA730	340	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$KA750	312	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$KA780	312	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$KA820	236	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$KA86	312	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$TS11	52	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$TU80	108	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$TU81	140	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RK611	172	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RK711	172	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RK07	168	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RL02	52	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$R80	52	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RA60	64	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RA80	64	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$\$RA81	64	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

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; $$DHU11      52 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DMF32S     128 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DMF32A      56 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DMF32P      56 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DMR11      88 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$UNA11     124 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DR11W     160 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DMP11      48 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DUP11      52 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$XDZ11      52 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DZ32      52 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RC25     176 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RCF25     172 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RX31      68 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RX02     184 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RX32      68 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RX50      68 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RX180     68 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$TS05      64 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$VS100     48 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$BCI750    136 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$DWBUA     64 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RK06     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RM03     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RM05     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RM80     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RK05     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RP06     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$RP07     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $$TU58     116 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

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Symbol	Type	Defined	Referenced	...
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\$CRD_LITERALS	Macro	Lib01	88	
\$EQU_LST	Macro	Lib02	88	89
\$MEN_LITERALS	Macro	Lib01	89	
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal		88	
AUTO\$K_EXIT_CONTROL_C	Literal		88	
AUTO\$K_EXIT_DUMMY_2	Literal		88	
AUTO\$K_EXIT_DUMMY_3	Literal		88	
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal		88	
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal		88	
AUTO\$K_EXIT_INTERNAL_ERROR	Literal		88	
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal		88	
AUTO\$K_EXIT_LAST_REASON	Literal		88	88
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal		88	
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal		88	88
AUTO\$K_EXIT_NOERRORS_PREP	Literal		88	
CRD\$GA_SUPBLK_L2R_DM32S	GlobBind		1625	
CRD\$GA_SUPBLK_L2R_KA730	GlobBind		1679	
CRD\$GA_SUPBLK_L2R_KA750	GlobBind		1722	
CRD\$GA_SUPBLK_L2R_KA780	GlobBind		1765	
CRD\$GA_SUPBLK_L2R_KA820	GlobBind		1809	
CRD\$GA_SUPBLK_L2R_KA86	GlobBind		1843	
CRD\$GA_SUPBLK_L2R_RC25	GlobBind		1885	
CRD\$GA_SUPBLK_L2R_RCF25	GlobBind		1911	
CRD\$GA_SUPBLK_L2R_RK05	GlobBind		2112	
CRD\$GA_SUPBLK_L2R_RK06	GlobBind		1937	
CRD\$GA_SUPBLK_L2R_RK07	GlobBind		1972	
CRD\$GA_SUPBLK_L2R_RM03	GlobBind		2007	
CRD\$GA_SUPBLK_L2R_RM05	GlobBind		2042	
CRD\$GA_SUPBLK_L2R_RM80	GlobBind		2077	
CRD\$GA_SUPBLK_L2R_RP06	GlobBind		2147	
CRD\$GA_SUPBLK_L2R_RP07	GlobBind		2182	
CRD\$GA_SUPBLK_L2R_RX02	GlobBind		2217	
CRD\$GA_SUPBLK_L2R_TU58	GlobBind		2252	
CRD\$GA_SUPBLK_L2R_TU81	GlobBind		2287	
CRD\$GA_SUPBLK_L2R_UNA11	GlobBind		2315	
CRD\$GA_SUPBLK_L2_DR11W	GlobBind		1652	
CRD\$GA_SUPBLK_L3_BC1750	GlobBind		1490	
CRD\$GA_SUPBLK_L3_DHU11	GlobBind		906	
CRD\$GA_SUPBLK_L3_DM32A	GlobBind		959	
CRD\$GA_SUPBLK_L3_DM32P	GlobBind		983	
CRD\$GA_SUPBLK_L3_DM32S	GlobBind		933	
CRD\$GA_SUPBLK_L3_DMP11	GlobBind		1107	
CRD\$GA_SUPBLK_L3_DMR11	GlobBind		1009	
CRD\$GA_SUPBLK_L3_DR11W	GlobBind		1071	
CRD\$GA_SUPBLK_L3_DUP11	GlobBind		1135	
CRD\$GA_SUPBLK_L3_DWBUA	GlobBind		1562	
CRD\$GA_SUPBLK_L3_DZ32	GlobBind		1196	
CRD\$GA_SUPBLK_L3_KA730	GlobBind		267	
CRD\$GA_SUPBLK_L3_KA750	GlobBind		329	
CRD\$GA_SUPBLK_L3_KA780	GlobBind		382	
CRD\$GA_SUPBLK_L3_KA820	GlobBind		435	
CRD\$GA_SUPBLK_L3_KA86	GlobBind		479	
CRD\$GA_SUPBLK_L3_R80	GlobBind		805	

Symbol	Type	Defined	Referenced ...
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CRD\$GA_SUPBLK_L3_RA60	GlobBind	831	
CRD\$GA_SUPBLK_L3_RA80	GlobBind	856	
CRD\$GA_SUPBLK_L3_RA81	GlobBind	881	
CRD\$GA_SUPBLK_L3_RC25	GlobBind	1227	
CRD\$GA_SUPBLK_L3_RCF25	GlobBind	1265	
CRD\$GA_SUPBLK_L3_RK07	GlobBind	757	
CRD\$GA_SUPBLK_L3_RK611	GlobBind	628	
CRD\$GA_SUPBLK_L3_RK711	GlobBind	693	
CRD\$GA_SUPBLK_L3_RL02	GlobBind	781	
CRD\$GA_SUPBLK_L3_RX02	GlobBind	1328	
CRD\$GA_SUPBLK_L3_RX180	GlobBind	1407	
CRD\$GA_SUPBLK_L3_RX31	GlobBind	1302	
CRD\$GA_SUPBLK_L3_RX32	GlobBind	1354	
CRD\$GA_SUPBLK_L3_RX50	GlobBind	1380	
CRD\$GA_SUPBLK_L3_TS05	GlobBind	1435	
CRD\$GA_SUPBLK_L3_TS11	GlobBind	532	
CRD\$GA_SUPBLK_L3_TU80	GlobBind	562	
CRD\$GA_SUPBLK_L3_TU81	GlobBind	601	
CRD\$GA_SUPBLK_L3_UNA11	GlobBind	1045	
CRD\$GA_SUPBLK_L3_VS100	GlobBind	1463	
CRD\$GA_SUPBLK_L3_XDZ11	GlobBind	1165	
CRD\$GA_SUPPORT_DBASE_ID	GlobBind	257	
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	88	
CRD\$K_ACTION_RANGE_ERROR	Literal	88	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	88	
CRD\$K_ADVANCE_GENERAL_COM	Literal	88	
CRD\$K_ADVANCE_STATE	Literal	88	
CRD\$K_ALLOCATION_ERROR	Literal	88	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	88	
CRD\$K_AUTOSIZER_ERROR	Literal	88	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	88	
CRD\$K_BAD_ACTION_NUMBER	Literal	88	
CRD\$K_BAD_TYPECODE_ERROR	Literal	88	
CRD\$K_BASE_SYSTEM_IDC	Literal	88	
CRD\$K_BASE_SYSTEM_LESI	Literal	88	
CRD\$K_BASE_SYSTEM_NULL	Literal	88	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	88	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	88	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	88	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	88	
CRD\$K_CRD_INITIALIZATION	Literal	88	
CRD\$K_CREATE_HST	Literal	88	
CRD\$K_DATA_LENGTH_ERROR	Literal	88	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	88	
CRD\$K_DDB_BLINK	Literal	88	
CRD\$K_DDB_FLINK	Literal	88	
CRD\$K_DDB_LAST_ENTRY	Literal	88	
CRD\$K_DDB_MEMORY_SIZE	Literal	88	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	88	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	88	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	88	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	88	
CRD\$K_DDB_PTABLE_ENTRY	Literal	88	

Symbol	Type	Defined	Referenced ...
CRD\$K_DDB_STATUS	Literal	88	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	88	
CRD\$K_DEVICE_NAME	Literal	88	
CRD\$K_DIAGNOSTIC_ERROR	Literal	88	
CRD\$K_DIAGNOSTIC_NAME	Literal	88	
CRD\$K_DONE_GENERAL_COMS	Literal	88	
CRD\$K_DO NOTHING	Literal	88	
CRD\$K_DUMMY_10	Literal	88	
CRD\$K_DUMMY_11	Literal	88	
CRD\$K_DUMMY_12	Literal	88	
CRD\$K_DUMMY_13	Literal	88	
CRD\$K_DUMMY_3	Literal	88	
CRD\$K_DUMMY_4	Literal	88	
CRD\$K_DUMMY_5	Literal	88	
CRD\$K_DUMMY_6	Literal	88	
CRD\$K_DUMMY_7	Literal	88	
CRD\$K_DUMMY_8	Literal	88	
CRD\$K_DUMMY_9	Literal	88	
CRD\$K_EXIT_CRD	Literal	88	
CRD\$K_HOOK_POINT	Literal	88	
CRD\$K_HS_INTERNAL_ERROR	Literal	88	
CRD\$K_IDC_EVDLB	Literal	88	
CRD\$K_IDC_EVDLC	Literal	88	
CRD\$K_IDC_EVDLD	Literal	88	
CRD\$K_IDC_EVRAD_0	Literal	88	
CRD\$K_IDC_EVRAD_1	Literal	88	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	88	
CRD\$K_INTERNAL_ERROR	Literal	88	
CRD\$K_LAST_ACTION_ROUTINE	Literal	88	
CRD\$K_LAST_ENTRY	Literal	88	
CRD\$K_LAST_FUNCTION	Literal	88	
CRD\$K_LAST_HOOK_POINT	Literal	88	
CRD\$K_LAST_INTERNAL_ERROR	Literal	88	
CRD\$K_LAST_TYPE	Literal	88	
CRD\$K_LESI_ENWCA	Literal	88	
CRD\$K_LESI_EVRMB_0	Literal	88	
CRD\$K_LESI_EVRMB_1	Literal	88	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	88	
CRD\$K_LEVEL_4_PASSED	Literal	88	
CRD\$K_LOAD_AUTOSIZER	Literal	88	
CRD\$K_LOAD_ERROR	Literal	88	
CRD\$K_LOAD_GENERAL_COM	Literal	88	
CRD\$K_LOAD_LOAD_COM	Literal	88	
CRD\$K_LOAD_SELECT_COM	Literal	88	
CRD\$K_LOAD_SET_EVENT_COM	Literal	88	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	88	
CRD\$K_LOAD_START_COM	Literal	88	
CRD\$K_LOAD_SUP_FILE	Literal	88	
CRD\$K_MM_INTERNAL_ERROR	Literal	88	
CRD\$K_NEW LINE	Literal	88	
CRD\$K_PREPARATION_ERROR	Literal	88	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	88	
CRD\$K_RUNTIME	Literal	88	

Symbol	Type	Defined	Referenced ...
CRD\$K_SAME_LINE	Literal	88	
CRD\$K_SET_EVENT_ARGS	Literal	88	
CRD\$K_SET_FLAGS_ARGS	Literal	88	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	88	
CRD\$K_START	Literal	88	
CRD\$K_START_AUTOSIZER	Literal	88	
CRD\$K_START_ERROR	Literal	88	
CRD\$K_START_QUALIFIERS	Literal	88	
CRD\$K_STAR_LINE	Literal	88	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	88	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	88	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	88	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	88	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	88	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	88	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	88	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	88	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	88	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	88	
CRD\$K_STATE_DUMMY_1	Literal	88	
CRD\$K_STATE_DUMMY_10	Literal	88	
CRD\$K_STATE_DUMMY_12	Literal	88	
CRD\$K_STATE_DUMMY_13	Literal	88	
CRD\$K_STATE_DUMMY_2	Literal	88	
CRD\$K_STATE_DUMMY_3	Literal	88	
CRD\$K_STATE_DUMMY_4	Literal	88	
CRD\$K_STATE_DUMMY_6	Literal	88	
CRD\$K_STATE_DUMMY_7	Literal	88	
CRD\$K_STATE_DUMMY_8	Literal	88	
CRD\$K_STATE_EXIT_CRD	Literal	88	
CRD\$K_STATE_INTERNAL_ERROR	Literal	88	
CRD\$K_STATE_LAST_STATE	Literal	88	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	88	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	88	
CRD\$K_STATE_LOAD_ERROR	Literal	88	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	88	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	88	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	88	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	88	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	88	
CRD\$K_STATE_LOAD_START_COM	Literal	88	
CRD\$K_STATE_PREPARATION_ERROR	Literal	88	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	88	
CRD\$K_STATE_START	Literal	88	
CRD\$K_STATE_START_AUTOSIZER	Literal	88	
CRD\$K_STATE_START_ERROR	Literal	88	
CRD\$K_TEST_START_TEXT	Literal	88	
CRD\$K_TQ_INTERNAL_ERROR	Literal	88	
CRD\$K_TYPECODE	Literal	88	
CRD\$K_UDA_0_EVDLB	Literal	88	
CRD\$K_UDA_0_EVDLC	Literal	88	
CRD\$K_UDA_0_EVDLD	Literal	88	
CRD\$K_UDA_0_EVRLA_0	Literal	88	

Symbol	Type	Defined	Referenced ...										
CRD\$K_UA_0_LAST_DIAGNOSTIC	Literal	88											
CRD\$K_UA_1_EVDLB	Literal	88											
CRD\$K_UA_1_EVDLC	Literal	88											
CRD\$K_UA_1_EVDLD	Literal	88											
CRD\$K_UA_1_EVRLA_0	Literal	88											
CRD\$K_UA_1_EVRLA_1	Literal	88											
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal	88											
CRD\$K_UA_2_EVDLB	Literal	88											
CRD\$K_UA_2_EVDLC	Literal	88											
CRD\$K_UA_2_EVDLD	Literal	88											
CRD\$K_UA_2_EVRLA_0	Literal	88											
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	88											
CRD\$K_UA_3_EVDLB	Literal	88											
CRD\$K_UA_3_EVDLC	Literal	88											
CRD\$K_UA_3_EVDLD	Literal	88											
CRD\$K_UA_3_EVRLA_0	Literal	88											
CRD\$K_UA_3_EVRLA_1	Literal	88											
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	88											
DEVICF_NAME	KeyWForm	180	188	193	197								
DEVTSTPREP_CODE	KeyWForm	208	212										
DIAGBLK_NO	KeyWForm	209	213										
DIAGNOSTIC_LEVEL	KeyWForm	186	191	202									
DIAGNOSTIC_NAME	KeyWForm	228	235										
FALSE	Unbound	184	210										
Literal	Lib01	267	272	329	334	382	387	435	440	479	484		
		532	562	601	606	628	633	693	698	757	762		
		781	786	805	810	831	836	856	861	881	886		
		906	911	933	938	959	964	983	988	1009	1014		
		1045	1050	1071	1076	1107	1112	1135	1140	1165	1170		
		1196	1201	1227	1232	1265	1270	1302	1308	1328	1334		
		1354	1360	1380	1386	1407	1413	1435	1463	1469	1490		
		1496	1562	1568	1625	1630	1652	1657	1679	1684	1722		
		1727	1765	1770	1809	1814	1843	1848	1885	1890	1911		
		1916	1937	1942	1972	1977	2007	2012	2042	2047	2077		
		2082	2112	2117	2147	2152	2182	2187	2217	2222	2252		
		2257	2287	2315	2320								
GET1ST	Macro	Lib02	88	89									
GET2ND	Unbound		88	89									
H\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal				88								
H\$K_ACTION_ADVANCE_GENERAL_COM	Literal				88								
H\$K_ACTION_ADVANCE_STATE	Literal				88								
H\$K_ACTION_CHANGE_TABLE	Literal				88								
H\$K_ACTION_DIAGNOSTIC_ERROR	Literal				88								
H\$K_ACTION_DONE_GENERAL_COMS	Literal				88								
H\$K_ACTION_DO_NOTHING	Literal				88								
H\$K_ACTION_DUMMY_3	Literal				88								
H\$K_ACTION_DUMMY_4	Literal				88								
H\$K_ACTION_DUMMY_5	Literal				88								
H\$K_ACTION_DUMMY_6	Literal				88								
H\$K_ACTION_INIT_HS	Literal				88								
H\$K_ACTION_INTERNAL_ERROR	Literal				88								
H\$K_ACTION_LAST_ACTION	Literal				88								
H\$K_ACTION_LOAD_ERROR	Literal				88								

[illegible]

Symbol	Type	Defined	Referenced ...
MEN\$GK_TEST_QUEUE	Literal	89	
MEN\$K_CNTLC_SEL_CONTINUE	Literal	89	
MEN\$K_CNTLC_SEL_EXIT	Literal	89	
MEN\$K_CNTLC_SEL_FTMENU	Literal	89	
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal	89	
MEN\$K_DEVTSTPREP_1	Literal	89	762 786 836
MEN\$K_DEVTSTPREP_2	Literal	89	
MEN\$K_DEVTSTPREP_3	Literal	89	538 568 1441 2293
MEN\$K_DEVTSTPREP_4	Literal	89	810 861 886
MEN\$K_DEVTSTPREP_5	Literal	89	
MEN\$K_DEVTSTPREP_6	Literal	89	1232 1270
MEN\$K_DEVTSTPREP_7	Literal	89	1308 1334 1360 1386 1413
MEN\$K_DEVTSTPREP_NULL	Literal	89	272 334 387 440 484 606 633 698 911 938
			964 988 1014 1050 1076 1112 1140 1170 1201 1469
			1496 1568 1630 1657 1684 1727 1770 1814 1848 1890
			1916 1942 1977 2012 2047 2082 2117 2152 2187 2222
			2257 2320
MEN\$K_FTMRET_EXIT	Literal	89	
MEN\$K_FTMRET_FAILURE	Literal	89	
MEN\$K_FTMRET_MENU	Literal	89	
MEN\$K_FTMRET_TEST	Literal	89	
MEN\$K_FTMSEL_EXIT	Literal	89	
MEN\$K_FTMSEL_FNCTST_ALL	Literal	89	
MEN\$K_FTMSEL_LAST_ENTRY	Literal	89	
MEN\$K_FTMSEL_PREP	Literal	89	
MEN\$K_FTMSEL_SYSTEM_HDWR	Literal	89	
MEN\$K_FTMSEL_TEST	Literal	89	
MEN\$K_HS_STATE_TABLE	Literal	88	
MEN\$K_MM_STATE_TABLE	Literal	88	
MEN\$K_PREP_ERROR_TEXT_LEN	Literal	89	
MEN\$K_SELDEV_NUMB_START	Literal	89	
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal	89	
MEN\$K_TQ_STATE_TABLE	Literal	88	
MEN\$K_TSTCLA_ALL	Literal	89	
MEN\$K_TSTCLA_CARD	Literal	89	
MEN\$K_TSTCLA_COMM	Literal	89	906 933 959 983 1009 1045 1107 1135 1625 2315
MEN\$K_TSTCLA_CPU	Literal	89	267 329 382 435 479 1679 1722 1765 1809 1843
MEN\$K_TSTCLA_DISK	Literal	89	628 693 757 781 805 831 856 881 1227 1265
			1302 1328 1354 1380 1407 1885 1911 1937 1972 2007
			2042 2077 2112 2147 2182 2217 2252
MEN\$K_TSTCLA_IO_ADAPTOR	Literal	89	1490 1562
MEN\$K_TSTCLA_LAST_ENTRY	Literal	89	
MEN\$K_TSTCLA_MEMORY	Literal	89	
MEN\$K_TSTCLA_NULL	Literal	89	
MEN\$K_TSTCLA_PRINTER	Literal	89	
MEN\$K_TSTCLA_REAL	Literal	89	1071 1652
MEN\$K_TSTCLA_TAPE	Literal	89	532 562 601 1435 2287
MEN\$K_TSTCLA_TERM	Literal	89	1165 1196 1463
MEN\$K_TSTCTG_CPU	Literal	89	267 329 382 435 479 1679 1722 1765 1809 1843
MEN\$K_TSTCTG_IO_ADAPTOR	Literal	89	1490 1562
MEN\$K_TSTCTG_IO_CONTROLLER	Literal	89	628 693 906 933 959 983 1009 1045 1071 1107

Symbol	Type	Defined	Referenced ...
MEN\$K_TSTCTG_10_UNIT	Literal	89	1135 1165 1196 1625 1652 2315 532 562 601 757 781 805 831 856 881 1227
			1265 1302 1328 1354 1380 1407 1435 1463 1885 1911
			1937 1972 2007 2042 2077 2112 2147 2182 2217 2252
			2287
MEN\$K_TSTCTG_MEMORY	Literal	89	
MEN\$K_TSTCTG_NULL	Literal	89	
MEN\$K_TSTTXT_DEVNAM_SZ	Literal	89	
MEN\$K_TSTTXT_TSTCLA_SZ	Literal	89	
MEN\$K_TSTTXT_UTNAM_SZ	Literal	89	
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	88	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	88	
MEN\$K_EXIT_LAST_REASON	Literal	88	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	88	
MEN\$K_EXIT_OPERATOR_STOP	Literal	88	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	88	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	88	
MM\$K_ACTION_ADVANCE_STATE	Literal	88	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	88	
MM\$K_ACTION_BUILD_DDBS	Literal	88	
MM\$K_ACTION_BUILD_HSTS	Literal	88	
MM\$K_ACTION_CHANGE_TABLE	Literal	88	
MM\$K_ACTION_DONE_INITS	Literal	88	
MM\$K_ACTION_DO_NOTHING	Literal	88	
MM\$K_ACTION_DUMMY_3	Literal	88	
MM\$K_ACTION_DUMMY_4	Literal	88	
MM\$K_ACTION_DUMMY_5	Literal	88	
MM\$K_ACTION_DUMMY_6	Literal	88	
MM\$K_ACTION_DUMMY_7	Literal	88	
MM\$K_ACTION_DUMMY_8	Literal	88	
MM\$K_ACTION_INTERNAL_ERROR	Literal	88	
MM\$K_ACTION_LAST_ACTION	Literal	88	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	88	
MM\$K_ACTION_MENU_PROMPT	Literal	88	
MM\$K_ACTION_PRINT_MENU	Literal	88	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	88	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	88	
MM\$K_ACTION_START_AUTOSIZER	Literal	88	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	88	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	88	
MM\$K_STATE_BUILD_DDBS	Literal	88	
MM\$K_STATE_BUILD_HSTS	Literal	88	
MM\$K_STATE_CHANGE_TABLE	Literal	88	
MM\$K_STATE_DONE_INITS	Literal	88	
MM\$K_STATE_DUMMY_1	Literal	88	
MM\$K_STATE_DUMMY_2	Literal	88	
MM\$K_STATE_DUMMY_3	Literal	88	
MM\$K_STATE_DUMMY_5	Literal	88	
MM\$K_STATE_DUMMY_7	Literal	88	
MM\$K_STATE_DUMMY_8	Literal	88	
MM\$K_STATE_INTERNAL_ERROR	Literal	88	
MM\$K_STATE_LAST_STATE	Literal	88	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	88	

Symbol	Type	Defined	Referenced	...
MM\$K_STATE_MENU_PROMPT	Literal	88		
MM\$K_STATE_PRINT_MENU	Literal	88		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	88		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	88		
MM\$K_STATE_START	Literal	88		
MM\$K_STATE_START_AUTOSIZER	Literal	88		
NUL2ND	Macro Lib02	88	89	
RUNTIME	KeyWForm	233	240	
SET_EVENT_ARGS	KeyWForm	230	237	
SET_FLAGS_ARGS	KeyWForm	229	236	
START_QUALIFIERS	KeyWForm	231	238	
STATUS_SCRATCH_MEDIA	KeyWForm	210	221	
STATUS_SUPBLK_INVALID	KeyWForm	184	201	
SUPBLK_END	KeyWMacr	247	318	371 424 468 521 548 587 616 679 744
		772	796	820 846 871 896 921 948 974 998
		1033	1060	1095 1122 1150 1180 1211 1251 1289 1318
		1344	1370	1396 1423 1451 1479 1551 1578 1640 1667
		1712	1755	1798 1833 1875 1900 1926 1961 1996 2031
		2066	2101	2136 2171 2206 2241 2276 2303 2330
SUPPORT_DBASE_ID	KeyWMacr	160	255	
TESTCFG_NO	KeyWForm	183	200	
TEST_CATEGORY	KeyWForm	181	198	
TEST_CLASS	KeyWForm	182	199	
TEST_START_TEXT	KeyWForm	232	239	
TQ\$K_ACTION_ADVANCE_STATE	Literal	88		
TQ\$K_ACTION_CHANGE_TABLE	Literal	88		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	88		
TQ\$K_ACTION_DO_NOTHING	Literal	88		
TQ\$K_ACTION_DUMMY_3	Literal	88		
TQ\$K_ACTION_DUMMY_4	Literal	88		
TQ\$K_ACTION_DUMMY_5	Literal	88		
TQ\$K_ACTION_GET_DDB	Literal	88		
TQ\$K_ACTION_INIT_TQ	Literal	88		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	88		
TQ\$K_ACTION_LAST_ACTION	Literal	88		
TQ\$K_STATE_CHANGE_TABLE	Literal	88		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	88		
TQ\$K_STATE_DUMMY_1	Literal	88		
TQ\$K_STATE_DUMMY_2	Literal	88		
TQ\$K_STATE_DUMMY_3	Literal	88		
TQ\$K_STATE_DUMMY_4	Literal	88		
TQ\$K_STATE_DUMMY_5	Literal	88		
TQ\$K_STATE_GET_DDB	Literal	88		
TQ\$K_STATE_INIT_TQ	Literal	88		
TQ\$K_STATE_INTERNAL_ERROR	Literal	88		
TQ\$K_STATE_LAST_STATE	Literal	88		
TRUE	Literal Lib01	538	568	1441 2293
VERSION	KeyWForm	160	167	171

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V021]EVLAAsB32;1
3	Module	EVLAAs
82	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
83	Library #2	SYS\$COMMON:[SYSLIB]LIB.L32;2
2332	Eludom	EVLAAs

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	----- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	4	0	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2		18619		3	00:02.1

COMMAND QUALIFIERS

```

; BLISS EVLAAsB32/LIST=ENLAAsLIS/CROSS_REFERENCE/DEBUG/OBJECT=ENLAAsOBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 0 code + 5556 data bytes
; Run Time: 00:41.9
; Elapsed Time: 00:46.0
; Lines/CPU Min: 3340
; Lexemes/CPU-Min: 67541
; Memory Used: 274 pages
; Compilation Complete

```

```

: 0001 0 xTITLE 'BLISS CRD Macros'
: 0002 0 xSBTTL 'For Customer Runnable Diagnostic Development'
: 0003 0
: 0004 0 |-----|
: 0005 0 |-----|
: 0006 0 |**
: 0007 0 |   Copyright (c) 1978, 1982, 1985 BY
: 0008 0 |   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASS.
: 0009 0 |
: 0010 0 | THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
: 0011 0 | ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
: 0012 0 | INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
: 0013 0 | COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
: 0014 0 | OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
: 0015 0 | TRANSFERRED.
: 0016 0 |
: 0017 0 | THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 | AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 | CORPORATION.
: 0020 0 |
: 0021 0 | DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 | SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
: 0023 0 |--
: 0024 0 |**
: 0025 0 | Facility:
: 0026 0 |
: 0027 0 | Diagnostic Supervisor
: 0028 0 |
: 0029 0 | Abstract:
: 0030 0 |
: 0031 0 | This library contains the literals and macros necessary for development
: 0032 0 | work on the Customer Runnable Diagnostic package. These macros and
: 0033 0 | literals are NOT repeated in any other DS library.
: 0034 0 |
: 0035 0 | Environment:
: 0036 0 |
: 0037 0 | Not applicable
: 0038 0 |
: 0039 0 | Author:
: 0040 0 |
: 0041 0 | Jack Stansbury
: 0042 0 | John Ciukaj
: 0043 0 |
: 0044 0 | Creation Date:
: 0045 0 |
: 0046 0 | April 1, 1982 (April Fools day)
: 0047 0 |
: 0048 0 |
: 0049 0 | Modified By:
: 0050 0 |
: 0051 0 | 01 John Ciukaj 4-April-1983 Version 1.2
: 0052 0 |
: 0053 0 | 02 Scott Cohen 9-June-1983 Version 1.2
: 0054 0 |   For soft console support
: 0055 0 |   - Added routine CRD$Screen_Pause,
  
```

```
; 0056 0 ! - macro $SCREEN_Literals for SCREEN$K_ constants,
; 0057 0 ! - CRD$GT_Clear_Screen,
; 0058 0 ! - all Auto Summary messages,
; 0059 0 ! - MEN$GT_End_of_List,
; 0060 0 ! - MEN$GT_TM_Pause, etc.
; 0061 0 ! For LCN support,
; 0062 0 ! - Added MEN$GT_DevTstPrep_6
; 0063 0 !
; 0064 0 ! 03 Scott Cohen 23-Sep-1983 Version 1.3
; 0065 0 ! Added new diagnostic ENWCA for PEARL LCN system
; 0066 0 !
; 0067 0 ! 04 Ron Parker 15-OCT-1984
; 0068 0 ! - Added Prep message #7 to $MEN_LITERAL
; 0069 0 !
; 0070 0 ! 05 Amy Iorio 15-JULY-1985
; 0071 0 ! - Deleted crd$gt_clear_screen(_vt52) and put
; 0072 0 ! their equivalent values directly in CRDSTOP.
; 0073 0 !
```



```

; 0074 0 xSBTTL 'EquLst CRD Literals'
; 0075 0
; M 0076 0 MACRO $CRD_Literals =
; M 0077 0 LITERAL
; M 0078 0   $EquLst (CRD$K_, GLOBAL, 0, 1
; M 0079 0     ! These literals define the Function parameter to the CRD$DS_Interface
; M 0080 0     ! routine.
; M 0081 0     ,(Hook_Point) ! A 'hook_point' is a point in the Supervisor from which CRD must be
; M 0082 0     ! called but that has no Print statement (e.g., the initialization of CRD).
; M 0083 0     ,(TypeCode) ! A 'typecode' means that this call to the CRD$DS_Interface routine is the
; M 0084 0     ! result of a Print statement.
; M 0085 0     ,(Last_Function)
; M 0086 0     ! The last function constant. This constant name must ALWAYS be LAST
; M 0087 0     ! in this list
; M 0088 0   );
; M 0089 0
; M 0090 0 LITERAL
; M 0091 0   $EquLst (CRD$K_, GLOBAL, 0, 1
; M 0092 0     ! The literals define the hook points for CRD.
; M 0093 0     ,(CRD_Initialization)
; M 0094 0     ! Time to initialize CRD.
; M 0095 0     ,(Last_Hook_Point)
; M 0096 0     ! The last hook point. This constant name must ALWAYS be LAST
; M 0097 0     ! in this list!
; M 0098 0   );
; M 0099 0
; M 0100 0 !+
; M 0101 0 ! Action routine constants for all four state tables:
; M 0102 0 !-
; M 0103 0
; M 0104 0 LITERAL
; M 0105 0   $EquLst (CRD$K_, GLOBAL, 0, 1
; M 0106 0     ! These literals define the action routine constants for Auto Test.
; M 0107 0     ,(Do_Nothing)
; M 0108 0     ,(Advance_State)
; M 0109 0     ,(Dummy_3)
; M 0110 0     ,(Start)
; M 0111 0     ,(Level_4_Passed)
; M 0112 0     ,(Dummy_4)
; M 0113 0     ,(Load_AutoSizer)
; M 0114 0     ,(AutoSizer_Set_Flags)
; M 0115 0     ,(Start_AutoSizer)
; M 0116 0     ,(Dummy_5)
; M 0117 0     ,(Assign_PTable_Ptrs)
; M 0118 0     ,(Dummy_6)
; M 0119 0     ,(Set_Up_Diagnostic)
; M 0120 0     ,(Dummy_7)
; M 0121 0     ,(Load_General_Com)
; M 0122 0     ,(Advance_General_Com)
; M 0123 0     ,(Done_Genera_Coms)
; M 0124 0     ,(Dummy_8)
; M 0125 0     ,(Load_Load_Com)
; M 0126 0     ,(Load_Set_Flags_Com)
; M 0127 0     ,(Load_Set_Event_Com)
; M 0128 0     ,(Load_Select_Com)

```

```

; M 0129 0      ,(Load_Start_Com)
; M 0130 0      ,(Dummy_9)
; M 0131 0      ,(Dummy_10)
; M 0132 0      ,(Advance_Diagnostic)
; M 0133 0      ,(Dummy_11)
; M 0134 0      ,(Exit_CRD)
; M 0135 0      ,(Dummy_12)
; M 0136 0      ,(AutoSizer_Error)
; M 0137 0      ,(Internal_Error)
; M 0138 0      ,(Load_Error)
; M 0139 0      ,(Start_Error)
; M 0140 0      ,(Diagnostic_Error)
; M 0141 0      ,(Preparation_Error)
; M 0142 0      ,(Dummy_13)
; M 0143 0      ,(Last_Action_Routine)
; M 0144 0      ! The last action routine constant. This must ALWAYS be the last action
; M 0145 0      ! routine constant in this list. Any additions to this list must be
; M 0146 0      ! made before this name.
; M 0147 0      );
; M 0148 0
; M 0149 0      !+
; M 0150 0      ! VAX-11/730,725 Base System Codes
; M 0151 0      !-
; M 0152 0
; M 0153 0      LITERAL      !      [01]
; M 0154 0      $EquLst (CRD$K_Base_System_, GLOBAL, 0, 1
; M 0155 0      ! These literals define the
; M 0156 0      ! VAX-11/730,725 base system codes
; M 0157 0      !
; M 0158 0      ,(Null) ! Null system type
; M 0159 0      ,(IDC) ! System is an IDC Based system.
; M 0160 0      ! Has IDC RB730 Disk controller.
; M 0161 0      ,(LESI) ! System is a LESI/AZTEC disk based system.
; M 0162 0      ! System does not have IDC. Has
; M 0163 0      ! a LESI controller at UNIBUS
; M 0164 0      ! I/O fixed CSR address 772150.
; M 0165 0      ,(UDA_0) ! System is a UDA/RA-disk based system.
; M 0166 0      ! System does not have IDC. Has
; M 0167 0      ! a UDA controller at UNIBUS
; M 0168 0      ! I/O fixed CSR address 772150. A RA60
; M 0169 0      ! drive IS NOT located at Drive 1.
; M 0170 0      ! A RA80 or 81 is at Drive 0.
; M 0171 0      ,(UDA_1) ! System is a UDA/RA-disk based system.
; M 0172 0      ! System does not have IDC. Has
; M 0173 0      ! a UDA controller at UNIBUS
; M 0174 0      ! I/O fixed CSR address 772150. A RA60
; M 0175 0      ! drive IS located at Drive 1.
; M 0176 0      ! A RA80 or 81 is at Drive 0.
; M 0177 0      ,(UDA_2) ! System is a UDA/RA-disk based system.
; M 0178 0      ! System does not have IDC. Has
; M 0179 0      ! a UDA controller at UNIBUS
; M 0180 0      ! I/O fixed CSR address 772150. A RA60
; M 0181 0      ! drive IS NOT located at Drive 1.
; M 0182 0      ! A RA60 is at Drive 0.
; M 0183 0      ,(UDA_3) ! System is a UDA/RA-disk based system.

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; M 0184 0      ! System does not have IDC.  Has
; M 0185 0      ! a UDA controller at UNIBUS
; M 0186 0      ! I/O fixed CSR address 772150.  A RA60
; M 0187 0      ! drive IS located at Drive 1.
; M 0188 0      ! A RA60 is at Drive 0.
; M 0189 0      );
; M 0190 0
; M 0191 0      LITERAL
; M 0192 0      $EquLst (MEN$K_, GLOBAL, 0, 1
; M 0193 0      ! These constants define what state table is currently being used in
; M 0194 0      ! Menu Test. The variable CRD$GB_Current_State_Table contains one of
; M 0195 0      ! these three constants.
; M 0196 0      ,(MM_State_Table)
; M 0197 0      ,(TQ_State_Table)
; M 0198 0      ,(HS_State_Table)
; M 0199 0      );
; M 0200 0
; M 0201 0      LITERAL
; M 0202 0      $EquLst (MM$K_Action_, GLOBAL, 0, 1
; M 0203 0      ,(Do_Nothing)
; M 0204 0      ,(Advance_State)
; M 0205 0      ,(Dummy_3)
; M 0206 0      ,(Dummy_4)
; M 0207 0      ,(Dummy_5)
; M 0208 0      ,(Print_Menu_Heading)
; M 0209 0      ,(Load_AutoSizer)
; M 0210 0      ,(Set_Flags_AutoSizer)
; M 0211 0      ,(Start_AutoSizer)
; M 0212 0      ,(Dummy_6)
; M 0213 0      ,(Build_DDBs)
; M 0214 0      ,(Build_HSTs)
; M 0215 0      ,(Dummy_7)
; M 0216 0      ,(Done_Inits)
; M 0217 0      ,(Dummy_8)
; M 0218 0      ,(Print_Menu)
; M 0219 0      ,(Change_Table)
; M 0220 0      ,(Menu_Prompt)
; M 0221 0      ,(Internal_Error)
; M 0222 0      ,(AutoSizer_Error)
; M 0223 0      ,(Last_Action)
; M 0224 0      ! The last action routine constant. This must ALWAYS be the last action
; M 0225 0      ! routine constant in this list. Any additions to this list must be
; M 0226 0      ! made before this name.
; M 0227 0      );
; M 0228 0
; M 0229 0      LITERAL
; M 0230 0      $EquLst (TQ$K_Action_, GLOBAL, 0, 1
; M 0231 0      ! These literals define the action routine constants for the Test Queue.
; M 0232 0      ,(Do_Nothing)
; M 0233 0      ,(Advance_State)
; M 0234 0      ,(Dummy_3)
; M 0235 0      ,(Init_TQ)
; M 0236 0      ,(Get_DDB)
; M 0237 0      ,(Change_Table)
; M 0238 0      ,(Dummy_4)

```

```

; M 0239 0      ,(Done_Test_Queue)
; M 0240 0      ,(Dummy_5)
; M 0241 0      ,(Internal_Error)
; M 0242 0      ,(Last_Action)
; M 0243 0      ! The last action routine constant. This must ALWAYS be the last action
; M 0244 0      ! routine constant in this list. Any additions to this list must be
; M 0245 0      ! made before this name.
; M 0246 0      );
; M 0247 0
; M 0248 0      LITERAL
; M 0249 0      $EquLst (HS$K_Action_, GLOBAL, 0, 1
; M 0250 0      ! These literals define the action routine constants for the Hardware Support.
; M 0251 0      ,(Do_Nothing)
; M 0252 0      ,(Advance_State)
; M 0253 0      ,(Dummy_3)
; M 0254 0      ,(Init_HS)
; M 0255 0      ,(Advance_Diagnostic)
; M 0256 0      ,(Load_General_Com)
; M 0257 0      ,(Advance_General_Com)
; M 0258 0      ,(Done_General_Com)
; M 0259 0      ,(Dummy_4)
; M 0260 0      ,(Load_Load_Com)
; M 0261 0      ,(Load_Set_Flags_Com)
; M 0262 0      ,(Load_Set_Event_Com)
; M 0263 0      ,(Load_Select_Com)
; M 0264 0      ,(Load_Start_Com)
; M 0265 0      ,(Dummy_5)
; M 0266 0      ,(Dummy_6)
; M 0267 0      ,(Change_Table)
; M 0268 0      ,(Load_Error)
; M 0269 0      ,(Start_Error)
; M 0270 0      ,(Diagnostic_Error)
; M 0271 0      ,(Preparation_Error)
; M 0272 0      ,(Internal_Error)
; M 0273 0      ,(Last_Action)
; M 0274 0      ! The last action routine constant. This must ALWAYS be the last action
; M 0275 0      ! routine constant in this list. Any additions to this list must be
; M 0276 0      ! made before this name.
; M 0277 0      );
; M 0278 0
; M 0279 0      !+
; M 0280 0      ! These literals define the state numbers for all four state tables:
; M 0281 0      !-
; M 0282 0
; M 0283 0      LITERAL
; M 0284 0      $EquLst (CRD$K_State_, GLOBAL, 0, 1
; M 0285 0      ! These constants define the values used to access the columns in the
; M 0286 0      ! CRD$GW_State_Table. These are the various states that CRD-AutoTest can
; M 0287 0      ! be in at any given time.
; M 0288 0      ,(Dummy_1)
; M 0289 0      ,(Dummy_2)
; M 0290 0      ,(Dummy_3)
; M 0291 0      ,(Start)
; M 0292 0      ,(Level_4_Passed)
; M 0293 0      ,(Dummy_4)

```

```

; M 0294 0      ,(Load_AutoSizer)
; M 0295 0      ,(AutoSizer_Set_Flags)
; M 0296 0      ,(Start_AutoSizer)
; M 0297 0      ,(AutoSizer_Running)
; M 0298 0      ,(Assign_PTable_Ptrs)
; M 0299 0      ,(Dummy_6)
; M 0300 0      ,(Set_Up_Diagnostic)
; M 0301 0      ,(Dummy_7)
; M 0302 0      ,(Load_General_Com)
; M 0303 0      ,(Advance_General_Com)
; M 0304 0      ,(Done_General_Com)
; M 0305 0      ,(Dummy_8)
; M 0306 0      ,(Load_Load_Com)
; M 0307 0      ,(Load_Set_Flags_Com)
; M 0308 0      ,(Load_Set_Event_Com)
; M 0309 0      ,(Load_Select_Com)
; M 0310 0      ,(Load_Start_Com)
; M 0311 0      ,(Diagnostic_Running)
; M 0312 0      ,(Dummy_10)
; M 0313 0      ,(Advance_Diagnostic)
; M 0314 0      ,(Done_Diagnostics)
; M 0315 0      ,(Exit_CRD)
; M 0316 0      ,(Dummy_12)
; M 0317 0      ,(AutoSizer_Error)
; M 0318 0      ,(Internal_Error)
; M 0319 0      ,(Load_Error)
; M 0320 0      ,(Start_Error)
; M 0321 0      ,(Diagnostic_Error)
; M 0322 0      ,(Preparation_Error)
; M 0323 0      ,(Dummy_13)
; M 0324 0      ,(Last_State)
; M 0325 0      ! This constant is the last such number in this list. It must remain
; M 0326 0      ! in this position (i.e., last). If any states are added to this list,
; M 0327 0      ! they must be added before this one.
; M 0328 0      );
; M 0329 0
; M 0330 0      LITERAL
; M 0331 0      $EquLst (MM$K_State_, GLOBAL, 0, 1
; M 0332 0      ! These constants define the values used to access the columns in the
; M 0333 0      ! CRD$GAW_MM_State_Table. These are the various states that CRD Menu Test can
; M 0334 0      ! be in for the Main Menu.
; M 0335 0      ,(Dummy_1)
; M 0336 0      ,(Dummy_2)
; M 0337 0      ,(Dummy_3)
; M 0338 0      ,(Start)
; M 0339 0      ,(Dummy_5)
; M 0340 0      ,(Print_Menu_Heading)
; M 0341 0      ,(Load_AutoSizer)
; M 0342 0      ,(Set_Flags_AutoSizer)
; M 0343 0      ,(Start_AutoSizer)
; M 0344 0      ,(AutoSizer_Running)
; M 0345 0      ,(Build_DDBs)
; M 0346 0      ,(Build_HSTs)
; M 0347 0      ,(Dummy_7)
; M 0348 0      ,(Done_Inits)

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; M 0349 0      ,(Dummy_8)
; M 0350 0      ,(Print_Menu)
; M 0351 0      ,(Change_Table)
; M 0352 0      ,(Menu_Prompt)
; M 0353 0      ,(Internal_Error)
; M 0354 0      ,(AutoSizer_Error)
; M 0355 0      ,(Last_State)
; M 0356 0      ! This constant is the last such number in this list. It must remain
; M 0357 0      ! in this position (i.e., last). If any states are added to this list,
; M 0358 0      ! they must be added before this one.
; M 0359 0      );
; M 0360 0
; M 0361 0 LITERAL
; M 0362 0 $EquLst (TQ$K_State_, GLOBAL, 0, 1
; M 0363 0      ! These constants define the values used to access the columns in the
; M 0364 0      ! CRD$GAW_TQ_State_Table. These are the various states that CRD Menu Test can
; M 0365 0      ! be in for the Test Queue.
; M 0366 0      ,(Dummy_1)
; M 0367 0      ,(Dummy_2)
; M 0368 0      ,(Dummy_3)
; M 0369 0      ,(Init_TQ)
; M 0370 0      ,(Get_DDB)
; M 0371 0      ,(Change_Table)
; M 0372 0      ,(Dummy_4)
; M 0373 0      ,(Done_Test_Queue)
; M 0374 0      ,(Dummy_5)
; M 0375 0      ,(Internal_Error)
; M 0376 0      ,(Last_State)
; M 0377 0      ! This constant is the last such number in this list. It must remain
; M 0378 0      ! in this position (i.e., last). If any states are added to this list,
; M 0379 0      ! they must be added before this one.
; M 0380 0      );
; M 0381 0
; M 0382 0 LITERAL
; M 0383 0 $EquLst (HS$K_State_, GLOBAL, 0, 1
; M 0384 0      ! These constants define the values used to access the columns in the
; M 0385 0      ! CRD$GAW_HS_State_Table. These are the various states that CRD Menu Test can
; M 0386 0      ! be in for the Hardware Support.
; M 0387 0      ,(Dummy_1)
; M 0388 0      ,(Dummy_2)
; M 0389 0      ,(Dummy_3)
; M 0390 0      ,(Init_HS)
; M 0391 0      ,(Advance_Diagnostic)
; M 0392 0      ,(Load_General_Com)
; M 0393 0      ,(Advance_General_Com)
; M 0394 0      ,(Done_General_Com)
; M 0395 0      ,(Dummy_4)
; M 0396 0      ,(Load_Load_Com)
; M 0397 0      ,(Load_Set_Flags_Com)
; M 0398 0      ,(Load_Set_Event_Com)
; M 0399 0      ,(Load_Select_Com)
; M 0400 0      ,(Load_Start_Com)
; M 0401 0      ,(Diagnostic_Running)
; M 0402 0      ,(Dummy_6)
; M 0403 0      ,(Change_Table)

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; M 0404 0      ,(Load_Error)
; M 0405 0      ,(Start_Error)
; M 0406 0      ,(Diagnostic_Error)
; M 0407 0      ,(Preparation_Error)
; M 0408 0      ,(Internal_Error)
; M 0409 0      ,(Last_State)
; M 0410 0      ! This constant is the last such number in this list. It must remain
; M 0411 0      ! in this position (i.e., last). If any states are added to this list,
; M 0412 0      ! they must be added before this one.
; M 0413 0      );
; M 0414 0
; M 0415 0      LITERAL
; M 0416 0      $EquLst (CRD$K_, GLOBAL, 0, 1
; M 0417 0      ! These constants define the types of messages that CRD will output.
; M 0418 0      ! These are used with the $CRD_Message macro.
; M 0419 0      ,(Star_Line) ! This message prints asterisks on both sides of the formatted FAO string.
; M 0420 0      ,(New_Line) ! This message prints a <CR><LF> before the formatted FAO string.
; M 0421 0      ,(Same_Line) ! This message prints the formatted FAO string only.
; M 0422 0      ,(Last_Type) ! This constant denotes the last type of message that CRD will output.
; M 0423 0      );
; M 0424 0
; M 0425 0      LITERAL
; M 0426 0      $EquLst (CRD$K_IDC_, GLOBAL, 0, 1
; M 0427 0      ! These constants define the names of diagnostics that CRD-AutoTest will run
; M 0428 0      ! for IDC based system            [01]
; M 0429 0      ,(EVRAD_0) ! Non-destructive disk tester for the R80
; M 0430 0      ! or RL02, DQA0
; M 0431 0      ,(EVRAD_1) ! Non-destructive disk tester for DQA1
; M 0432 0      ,(EVDLB) ! Combo Synchronous port tester
; M 0433 0      ,(EVDLC) ! Combo Asynchronous port tester
; M 0434 0      ,(EVDLD) ! Combo Parallel port tester
; M 0435 0      ,(Last_Diagnostic)
; M 0436 0      ! The last diagnostic. This must always be the last such constant in this list.
; M 0437 0      );
; M 0438 0
; M 0439 0
; M 0440 0      LITERAL            !            [01]
; M 0441 0      $EquLst (CRD$K_LESI_, GLOBAL, 0, 1
; M 0442 0      ! These constants define the names
; M 0443 0      ! of diagnostics that CRD-AutoTest will run
; M 0444 0      ! for AZTEC LESI based systems
; M 0445 0      ,(EVRMB_0) ! Non-destructive disk tester for the RC25
; M 0446 0      ! Drive 0
; M 0447 0      ,(EVRMB_1) ! Non-destructive disk tester for RC25
; M 0448 0      ! Drive 1
; M 0449 0      ,(ENWCA) ! Non-destructive console/graphic PEARL      ! [03]
; M 0450 0      ! level 3 diagnostic
; M 0451 0      ,(Last_Diagnostic)
; M 0452 0      ! The last diagnostic. This must always be the last such constant in this list.
; M 0453 0      );
; M 0454 0
; M 0455 0
; M 0456 0
; M 0457 0      LITERAL            !            [01]
; M 0458 0      $EquLst (CRD$K_UDA_3_, GLOBAL, 0, 1

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```
; M 0459 0      ! These constants define the names
; M 0460 0      ! of diagnostics that CRD-AutoTest will run
; M 0461 0      ! for a UDA based system with
; M 0462 0      ! an RA60 for Drive 1 and RA60 Drive 0.
; M 0463 0      ,(EVRLA_0) ! Non-destructive disk tester for
; M 0464 0      ! Drive 0
; M 0465 0      ,(EVRLA_1) ! Non-destructive disk tester for
; M 0466 0      ! Drive 1
; M 0467 0      ,(EVDLB) ! Combo Synchronous port tester
; M 0468 0      ,(EVDLC) ! Combo Asynchronous port tester
; M 0469 0      ,(EVDLD) ! Combo Parallel port tester
; M 0470 0      ,(Last_Diagnostic)
; M 0471 0      ! The last diagnostic. This must always be the last such constant in this list.
; M 0472 0      );
; M 0473 0
; M 0474 0
; M 0475 0      LITERAL      ! [01]
; M 0476 0      $EquLst (CRD$K_UDA_2_, GLOBAL, 0, 1
; M 0477 0      ! These constants define the names
; M 0478 0      ! of diagnostics that CRD-AutoTest will run
; M 0479 0      ! for a UDA based system with
; M 0480 0      ! no RA60 for Drive 1 and an RA60 Drive 0.
; M 0481 0      ,(EVRLA_0) ! Non-destructive disk tester for
; M 0482 0      ! Drive 0
; M 0483 0      ,(EVDLB) ! Combo Synchronous port tester
; M 0484 0      ,(EVDLC) ! Combo Asynchronous port tester
; M 0485 0      ,(EVDLD) ! Combo Parallel port tester
; M 0486 0      ,(Last_Diagnostic)
; M 0487 0      ! The last diagnostic. This must always be the last such constant in this list.
; M 0488 0      );
; M 0489 0
; M 0490 0      LITERAL      ! [01]
; M 0491 0      $EquLst (CRD$K_UDA_1_, GLOBAL, 0, 1
; M 0492 0      ! These constants define the names
; M 0493 0      ! of diagnostics that CRD-AutoTest will run
; M 0494 0      ! for a UDA based system with
; M 0495 0      ! an RA60 for Drive 1 and RA80 or 81 Drive 0.
; M 0496 0      ,(EVRLA_0) ! Non-destructive disk tester for
; M 0497 0      ! Drive 0
; M 0498 0      ,(EVRLA_1) ! Non-destructive disk tester for
; M 0499 0      ! Drive 1
; M 0500 0      ,(EVDLB) ! Combo Synchronous port tester
; M 0501 0      ,(EVDLC) ! Combo Asynchronous port tester
; M 0502 0      ,(EVDLD) ! Combo Parallel port tester
; M 0503 0      ,(Last_Diagnostic)
; M 0504 0      ! The last diagnostic. This must always be the last such constant in this list.
; M 0505 0      );
; M 0506 0
; M 0507 0
; M 0508 0      LITERAL      ! [01]
; M 0509 0      $EquLst (CRD$K_UDA_0_, GLOBAL, 0, 1
; M 0510 0      ! These constants define the names
; M 0511 0      ! of diagnostics that CRD-AutoTest will run
; M 0512 0      ! for a UDA based system with
; M 0513 0      ! no RA60 for Drive 1 and an RA80 or 81 for Drive 0.
```



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; M 0514 0 ,(EVRLA_0) ! Non-destructive disk tester for
; M 0515 0 ! Drive 0
; M 0516 0 ,(EVDLB) ! Combo Synchronous port tester
; M 0517 0 ,(EVDLC) ! Combo Asynchronous port tester
; M 0518 0 ,(EVDLD) ! Combo Parallel port tester
; M 0519 0 ,(Last_Diagnostic)
; M 0520 0 ! The last diagnostic. This must always be the last such constant in this list.
; M 0521 0 );
; M 0522 0

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; M 0523 0 LITERAL
; M 0524 0 $EquLst (CRD$K_, GLOBAL, 0, 1
; M 0525 0 ! These constants define the column numbers for the Hardware Support table.
; M 0526 0 ,(Diagnostic_Name)
; M 0527 0 ! A pointer to an ASCIC string
; M 0528 0 ,(Set_Flags_Args)
; M 0529 0 ! A pointer to an ASCIC string
; M 0530 0 ,(Set_Event_Args)
; M 0531 0 ! A pointer to an ASCIC string
; M 0532 0 ,(Device_Name)
; M 0533 0 ! A pointer to an ASCIC string in the PTable
; M 0534 0 ,(Start_Qualifiers)
; M 0535 0 ! A pointer to an ASCIC string
; M 0536 0 ,(Test_Start_Text)
; M 0537 0 ! A pointer to an ASCIC string
; M 0538 0 ,(RunTime)
; M 0539 0 ! A pointer to an ASCIC string
; M 0540 0 ,(Preparation_Error_Text)
; M 0541 0 ! A pointer to an ASCIC string
; M 0542 0 ,(Last_Entry)
; M 0543 0 ! The last column number (+ 1) in this list. This must always be last
; M 0544 0 ! in this list.
; M 0545 0 );
; M 0546 0

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; M 0547 0 LITERAL
; M 0548 0 $EquLst (CRD$K_DDB_, GLOBAL, 0, 1
; M 0549 0 ! These constants define the entries in a DDB
; M 0550 0 ,(FLink)
; M 0551 0 ! Forward link
; M 0552 0 ,(BLink)
; M 0553 0 ! Backwards link
; M 0554 0 ,(PTable_Entry)
; M 0555 0 ! Pointer to a PTable entry
; M 0556 0 ,(Auto_Support_Entry)
; M 0557 0 ! Pointer to a row in the Hardware_Support_Table (for CRD Auto Test)
; M 0558 0 ,(Menu_Support_Entry)
; M 0559 0 ! Pointer to the concatenated Hardware Support Tables (for CRD Menu Test)
; M 0560 0 ,(Status)
; M 0561 0 ! Three bytes containing status bits and a byte containing the size
; M 0562 0 ! of the allocated DDB - in BYTES
; M 0563 0 ,(Numb_Support_Tables)
; M 0564 0 ! Number of concatenated Hardware
; M 0565 0 ! Support Blocks pointed to by DDB's
; M 0566 0 ! Man_Support_Entry
; M 0567 0 ,(Menu_Device_Numb)
; M 0568 0 ! The select for test number specified

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; M 0569 0      ! for the DDB's device.
; M 0570 0      ,(SupBlk_Block_Ptr)
; M 0571 0      ! Pointer to the device support
; M 0572 0      ! block located in the loaded CRD MENU
; M 0573 0      ! Support file database.
; M 0574 0      ,(Memory_Size) ! Size in bytes of allocated
; M 0575 0      ! memory space for DDB
; M 0576 0      ,(Menu_Support_Size)
; M 0577 0      ! Size in bytes of allocated memory
; M 0578 0      ! space for 1 or more concatenated
; M 0579 0      ! hardware support tables pointed to
; M 0580 0      ! by [CRD$K_DDB_Menu_Support_Entry].
; M 0581 0      ,(last_Entry)
; M 0582 0      ! This is the last DDB entry. It must ALWAYS be last.
; M 0583 0      );
; M 0584 0
; M 0585 0 LITERAL
; M 0586 0 $EquLst (AUTO$K_Exit_, GLOBAL, 0, 1
; M 0587 0      ! These literals define the reasons for stopping CRD-AutoTest.
; M 0588 0      ,(Control_C)
; M 0589 0      ! Exit CRD because a Control-C was typed.
; M 0590 0      ,(Internal_Error)
; M 0591 0      ! Stop CRD because of an internal error (i.e., software bug).
; M 0592 0      ,(AutoSizer_Error)
; M 0593 0      ! Exit CRD because the AutoSizer has a problem.
; M 0594 0      ,(Errors_Complete)
; M 0595 0      ,(Errors_Incomplete)
; M 0596 0      ,(NoErrors_Complete)
; M 0597 0      ,(NoErrors_Incomplete)
; M 0598 0      ,(NoErrors_Prep)
; M 0599 0      ,(Inv_Base_System)
; M 0600 0      ! Invalid Base System. CRD unable
; M 0601 0      ! to determine Base System Type for test. [01]
; M 0602 0      ,(Dummy_2) ! Use one of these two when more reasons are added to this list.
; M 0603 0      ! This must be done so that the next set of literals come out to be
; M 0604 0      ,(Dummy_3) ! correct - note they use the value of AUTO$K_Exit_Last_Reason.
; M 0605 0      ,(Last_Reason)
; M 0606 0      ! The last stop reason. This must ALWAYS be the last stop reason in this
; M 0607 0      ! list. Any additions to this list must be made before this name.
; M 0608 0      );
; M 0609 0
; M 0610 0 LITERAL
; M 0611 0 $EquLst (MENU$K_Exit_, GLOBAL, AUTO$K_Exit_Last_Reason, 1
; M 0612 0      ! These literals define the reasons for stopping CRD Menu Test.
; M 0613 0      ,(Operator_Stop)
; M 0614 0      ! Exit CRD because the operator requested an exit from the Main Menu.
; M 0615 0      ,(Operator_Abort)
; M 0616 0      ! Exit CRD because the operator requested an exit from the ^C menu.
; M 0617 0      ,(Internal_Error)
; M 0618 0      ! Stop CRD Menu Test because of an internal error (i.e., software bug).
; M 0619 0      ,(AutoSizer_Error)
; M 0620 0      ! Exit CRD Menu Test because the AutoSizer has a problem.
; M 0621 0      ,(Sup_File_Not_Found)
; M 0622 0      ,(Sup_File_Load_Err)
; M 0623 0      ,(Last_Reason)

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; M 0624 0      ! The last stop reason. This must ALWAYS be the last stop reason in this
; M 0625 0      ! list. Any additions to this list must be made before this name.
; M 0626 0      );
; M 0627 0
; M 0628 0 LITERAL
; M 0629 0 $EquLst (CRD$K_, GLOBAL, -1, -1
; M 0630 0      ! These literals define the internal error codes. They start at -1 and descend
; M 0631 0      ! from there. The reason for this is that they must be distinguishable from
; M 0632 0      ! the TypeCodes.
; M 0633 0      ,(Allocation_Error)
; M 0634 0      ! An error occurred in allocating memory for the DDB's.
; M 0635 0      ,(Action_Range_Error)
; M 0636 0      ! The action routine number is out of range.
; M 0637 0      ,(Action_EQL_Do_Nothing)
; M 0638 0      ! The action routine number eql Do_Nothing.
; M 0639 0      ,(Bad_TypeCode_Error)
; M 0640 0      ! The typecode is invalid in the current context.
; M 0641 0      ,(Data_Length_Error)
; M 0642 0      ! The length of the buffer to insert the general commands into is not
; M 0643 0      ! long enough to hold a general command.
; M 0644 0      ,(MM_Internal_Error)
; M 0645 0      ,(TQ_Internal_Error)
; M 0646 0      ,(HS_Internal_Error)
; M 0647 0      ,(Bad_Action_Number)
; M 0648 0      ,(Load_Sup_File)
; M 0649 0      ,(Create_HST)
; M 0650 0      ,(Last_Internal_Error)
; M 0651 0      ! This is the last literal for the Internal Error codes.
; M 0652 0      )
; M 0653 0      x;
; M 0654 0
; M 0655 0 MACRO $SCREEN_Literals =
; M 0656 0 LITERAL
; M 0657 0 $EquLst (SCREEN$K_, GLOBAL, 0, 1
; M 0658 0      ! These constants determine which soft console
; M 0659 0      ! operation to perform.
; M 0660 0      ,(Press_Return)
; M 0661 0      ,(Clear_Screen)
; M 0662 0      ,(Count_Line)
; M 0663 0      ,(Press_Return_MM)
; M 0664 0      ,(Press_Return_TM)
; M 0665 0      ,(TM_Msg)
; M 0666 0      )
; M 0667 0      x;

```

```

: 0668 0 xSBTTL 'Other CRD Literals'
: 0669 0
: 0670 0 LITERAL
: 0671 0 Off      = 0,
: 0672 0 On       = 1,
: 0673 0
: 0674 0 False    = 0,
: 0675 0 True     = 1,
: 0676 0
: 0677 0 CRD$K_Failure = 0,
: 0678 0 CRD$K_Success = 1,
: 0679 0
: 0680 0 CRD$K_Return_Failure = 0,
: 0681 0 CRD$K_Return_Success = 1,
: 0682 0 CRD$K_Repeat_Turing = 2,
: 0683 0
: 0684 0
: 0685 0 CRD$K_Numb_Screen_Lines = 22,
: 0686 0 ! Maximum number of lines on soft
: 0687 0 ! console screen for output which
: 0688 0 ! allows space for a msg on line 24.
: 0689 0
: 0690 0 CRD$K_DS_Command_Size = 80,
: 0691 0 ! Maximum size of each general command
: 0692 0 CRD$K_Numb_General_Commands = 3,
: 0693 0 ! The number of general commands
: 0694 0 CRD$K_IDC_Numb_Diagnostics = 5,
: 0695 0 ! The number of diagnostics used in CRD-AutoTest
: 0696 0 ! for an IDC based system [01]
: 0697 0 CRD$K_LESI_Numb_Diagnostics = 3,
: 0698 0 ! The number of diagnostics used in CRD-AutoTest ![[03]
: 0699 0 ! for an AZTEC LESI based system [01]
: 0700 0 CRD$K_UDA_0_Numb_Diagnostics = 4,
: 0701 0 ! The number of diagnostics used in CRD-AutoTest
: 0702 0 ! for a UDA based system with
: 0703 0 ! no RA60 for Drive 1 and RA80 or 81 for Drive 0. [01]
: 0704 0 CRD$K_UDA_1_Numb_Diagnostics = 5,
: 0705 0 ! The number of diagnostics used in CRD-AutoTest
: 0706 0 ! for a UDA50 based system [01]
: 0707 0 ! with a RA60 for Drive 1 and RA80 or 81 Drive 0. [01]
: 0708 0 CRD$K_UDA_2_Numb_Diagnostics = 4,
: 0709 0 ! The number of diagnostics used in CRD-AutoTest
: 0710 0 ! for a UDA based system with
: 0711 0 ! no RA60 for Drive 1 and RA80 or 81 for Drive 0. [01]
: 0712 0 CRD$K_UDA_3_Numb_Diagnostics = 5,
: 0713 0 ! The number of diagnostics used in CRD-AutoTest
: 0714 0 ! for a UDA50 based system [01]
: 0715 0 ! with a RA60 for Drive 1 and RA80 or 81 Drive 0. [01]
: 0716 0 CRD$K_Numb_Support_Entries = 8,
: 0717 0 ! The number of entries per row in the Hardware_Support table
: 0718 0 CRD$K_Numb_Dispatch_Vectors = 14,
: 0719 0 ! This MUST be changed whenever the number of vectors is changed in
: 0720 0 ! CRDVECS or DSVECS. This is used by the CRDImage module to allocate
: 0721 0 ! space to store the original DS dispatch vectors (in DSVECS). It is also
: 0722 0 ! used to allocate static space for the debug vector table (below).

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```

: 0723 0      ! Note that this is not the actual number of vectors in the CRDVECS (DSVECS)
: 0724 0      ! module. It is the number of vectors that are currently in use.
: 0725 0 CRD$K_Numb_UnUsed_Vectors = 11,
: 0726 0      ! This is the number of vectors that are unused in the vector tables in
: 0727 0      ! DSVECS and CRDVECS. This number plus the number above MUST equal the
: 0728 0      ! CRD$K_Total_Numb_Vectors constant.
: 0729 0 CRD$K_Total_Numb_Vectors = 25,
: 0730 0      ! The total number of used and unused vectors in the DSVECS and CRDVECS
: 0731 0      ! modules. CRD$K_Total_Numb_Vectors = CRD$K_Numb_UnUsed_Vectors +
: 0732 0      ! CRD$K_Numb_Dispatch_Vectors. ALWAYS!
: 0733 0
: 0734 0 CRD$K_Numb_States = 36, ! The number of states in the CRD$GW_State_Table.
: 0735 0 MM$K_Numb_States = 20, ! The number of states in the CRD$GAW_MM_State_Table.
: 0736 0 TQ$K_Numb_States = 10, ! The number of states in the CRD$GAW_TQ_State_Table.
: 0737 0 HS$K_Numb_States = 22, ! The number of states in the CRD$GAW_HS_State_Table.
: 0738 0
: 0739 0 CRD$K_Numb_TypeCodes = 38, ! The number of defined typecodes.
: 0740 0
: 0741 0
: 0742 0 CRD$K_Action_Routine = 0, ! These two literals are used to access either the high word or the low
: 0743 0 CRD$K_New_State = 1, ! word of each entry in the CRD$GW_State_Table (New_State = high word).
: 0744 0
: 0745 0
: 0746 0 CRD$K_CRD_Message_Buffer_Len = 132,
: 0747 0      ! The number of bytes in the message buffer.
: 0748 0
: 0749 0
: 0750 0 CRD$K_DDB_Size = 44; ! The size of a Device Data Block = 44 bytes (11 longwords). Note that this
: 0751 0      ! is the size that is needed for both Auto Test and Menu Test.
: 0752 0
: 0753 0
: 0754 0

```

```
; 0755 0 xSBTTL 'DDB Literals and Macros'
; 0756 0
; 0757 0 !+
; 0758 0 ! Use fields to get to the specific bits in the DDB Status longword.
; 0759 0 !-
; 0760 0
; 0761 0 MACRO DDB$V_Status_Diagnostic_Error = 0, 1, 0 x;
; 0762 0 ! The test for this device encountered a diagnostic error
; 0763 0
; 0764 0 MACRO DDB$V_Status_Preparation_Error = 1, 1, 0 x;
; 0765 0 ! The test for this device encountered a preparation error
; 0766 0
; 0767 0 MACRO DDB$V_Status_Essential_Device = 2, 1, 0 x;
; 0768 0 ! This device must be tested. If it is not, then in AutoTest, the run
; 0769 0 ! is considered INCOMPLETE.
; 0770 0
; 0771 0 MACRO DDB$V_Status_Check_Device_Type = 3, 1, 0 x;
; 0772 0 ! Replace the device type field in the Test_Start_Text when
; 0773 0 ! it is being output. Replace character for character with
; 0774 0 ! the Device_Type ascic string in the PTable.
; 0775 0
; 0776 0 MACRO DDB$V_Status_Device_Bad = 4, 1, 0 x;
; 0777 0 ! If one diagnostic in a set of HSB's finds an error (thereby setting
; 0778 0 ! Diagnostic_Error - above - to True), this will be True also.
; 0779 0
; 0780 0 MACRO DDB$V_Status_Dev_Test_Complete = 5, 1, 0 x;
; 0781 0 ! If true, all the diagnostics for a specific DDB completed
; 0782 0 ! successfully.
; 0783 0
; 0784 0 MACRO DDB$V_Status_Message_Printed = 6, 1, 0 x;
; 0785 0 ! If true, a message was printed by an error routine. If not true, then no
; 0786 0 ! message has been printed for this diagnostic, and we must print the PASS
; 0787 0 ! message.
; 0788 0
; 0789 0 MACRO
; 0790 0 DDB$B_Status_DDB_Size = 24, 8, 0 x;
; 0791 0 ! The size in BYTES of the allocated DDB.
```

```
; 0792 0 xSBTTL 'CRD_Logic_Error Macro'
; 0793 0
; 0794 0 MACRO
; 0795 0 !*
; 0796 0 ! Usage:
; 0797 0 ! CRD_Logic_Error ('Error message to be printed out');
; 0798 0 ! Function:
; 0799 0 ! This macro outputs an error message that will indicate that something is wrong with CRD.
; 0800 0 !-
; 0801 0
; M 0802 0 CRD_Logic_Error (Error_String) =
; M 0803 0 (
; M 0804 0 BIND
; M 0805 0 ES = $ASCIC ('!/** CRD Internal Logic Error ** ', Error_String, '!/');
; M 0806 0
; M 0807 0 $CRD_Print (ES)
; M 0808 0 )
; 0809 0 x;
```

```

: 0810 0 xSBTTL 'Logic_Error Macro'
: 0811 0
: 0812 0 MACRO
: 0813 0 !+
: 0814 0 ! Usage:
: 0815 0 ! Logic_Error ('Error message to be printed out');
: 0816 0 ! Function:
: 0817 0 ! This macro outputs an error message that will indicate that something is wrong with CRD.
: 0818 0 ! This macro can only be used in the Resident-DS image.
: 0819 0 !-
: 0820 0
: M 0821 0 Logic_Error (Error_String) =
: M 0822 0 (
: M 0823 0   $DS_TypeDef; ! Define the typcodes locally
: M 0824 0
: M 0825 0   BIND
: M 0826 0     ES = $ASCIC ('!/** CRD(R) Internal Logic Error ** ', Error_String, '!/');
: M 0827 0
: M 0828 0   $Print (DS$K_Type_CRD_AutoTest, DS$K_Printf, ES)
: M 0829 0   )
: 0830 0 x;

```



```

: 0831 0 xSBTTL 'Assert Macro'
: 0832 0
: 0833 0 MACRO
: 0834 0 !+
: 0835 0 ! Usage:
: 0836 0 ! CRD_ASSERT ((.A GTR .B), 'A <= B');
: 0837 0 !
: 0838 0 ! If the specified condition is not true, an error is printed by the Bliss compiler. If it is true,
: 0839 0 ! that is stated.
: 0840 0 !-
: 0841 0
: M 0842 0 CRD_Assert (Condition, Assert_String) =
: M 0843 0 xIF xCTCE (Condition)
: M 0844 0 xTHEN
: M 0845 0 xIF (Condition)
: M 0846 0 xTHEN
: M 0847 0 xPRINT ('ASSERT: The assertion is true.')
: M 0848 0 xELSE
: M 0849 0 xIF xISSTRING (Assert_String)
: M 0850 0 xTHEN
: M 0851 0 xERROR ('ASSERT: The assertion is not true:')
: M 0852 0 xERROR ('ASSERT: ', Assert_String, '!')
: M 0853 0 xELSE
: M 0854 0 xERROR ('ASSERT: The assertion is not true!')
: M 0855 0 xFI
: M 0856 0 xFI
: M 0857 0 xELSE
: M 0858 0 xERRORMACRO ('ASSERT: The assertion is not a compiletime constant expression!')
: M 0859 0 xFI
: 0860 0 x;
: 0861 0

```

```

: 0862 0 xSBTTL 'Debug Macro'
: 0863 0
: 0864 0 MACRO
: 0865 0 !*
: 0866 0 ! This macro is used only in the debugging stages. It's only parameter is a string giving, e.g., the
: 0867 0 ! name of a routine. DEBUG is turned on whenever the compilation is made with the /VARIANT:n qual'ifier,
: 0868 0 ! where n <> 0.
: 0869 0 !-
: 0870 0
: M 0871 0 CRD_DEBUG (Debug_String) =
: M 0872 0   xIF xVARIANT
: M 0873 0   xTHEN
: M 0874 0   (
: M 0875 0     BIND
: M 0876 0     DS = $ASCIC ('!/** CRD-Debug ** ', Debug_String, '!.!/' );
: M 0877 0
: M 0878 0     $CRD_Print (DS)
: M 0879 0   )
: M 0880 0   xELSE
: M 0881 0   ! No code put in.
: M 0882 0   xFI
: 0883 0 x;

```

```
: 0884 0 xSBTTL 'Boolean Macro'
: 0885 0
: 0886 0 MACRO
: 0887 0 !+
: 0888 0 ! Define a macro that takes an expression as an argument. The value of this macro is either
: 0889 0 ! one or zero. All bits but the least significant one are cleared.
: 0890 0 !-
: 0891 0
: M 0892 0 Boolean (Expression) =
: M 0893 0 ((Expression) AND 1)
: 0894 0 x;
```

```

: 0895 0 xSBTTL '$CRD_Print Macro'
: 0896 0
: 0897 0 MACRO
: M 0898 0 $CRD_Print (Format) =
: M 0899 0 (
: M 0900 0 $DS_TypeDef; ! Define the typecodes locally
: M 0901 0
: M 0902 0 (.CRD$Print)
: M 0903 0 (
: M 0904 0 DS$K_Type_CRD_AutoTest,
: M 0905 0 DS$K_Printf,
: M 0906 0 Format
: M 0907 0 xIF xLENGTH GTR 1
: M 0908 0 xTHEN
: M 0909 0 , xREMAINING
: M 0910 0 xFI
: M 0911 0 )
: M 0912 0 )
: 0913 0 x;

```

```
; 0914 0 xSBTTL 'Length Macro (for $CRD_Message)'  
; 0915 0  
; 0916 0 MACRO  
; M 0917 0 $CRD_Length [Ascic_String] =  
; M 0918 0 (  
; M 0919 0 BIND  
; M 0920 0 String = (Ascic_String) : VECTOR [, BYTE];  
; M 0921 0  
; M 0922 0 .String [0]  
; M 0923 0 )  
; 0924 0 x;
```

```
: 0925 0 xSBTTL 'Cat Macro (for $CRD_Message)'  
: 0926 0  
: 0927 0 MACRO  
: M 0928 0 $CRD_Cat [Ascii_String] =  
: M 0929 0 (  
: M 0930 0 BIND  
: M 0931 0 String = (Ascii_String) : VECTOR [, BYTE];  
: M 0932 0  
: M 0933 0 .String [0]  
: M 0934 0 ), CH$Ptr (Ascii_String + 1)  
: 0935 0 x;  
: 0936 0  
: 0937 0  
: 0938 0  
: 0939 0 xSBTTL 'Concat Macro (for $CRD_Message)'  
: 0940 0  
: 0941 0 MACRO  
: M 0942 0 $CRD_Concat (Buffer_Address, Buffer_Length) [] =  
: M 0943 0 (  
: M 0944 0 BIND  
: M 0945 0 Address = (Buffer_Address),  
: M 0946 0 Length = (Buffer_Length);  
: M 0947 0  
: M 0948 0 CH$Fill (xC' ', Length, CH$Ptr (Address));  
: M 0949 0 (  
: M 0950 0 MAP  
: M 0951 0 Address : VECTOR [, BYTE];  
: M 0952 0  
: M 0953 0 Address [0] = 0 + $CRD_Length (xREMAINING)  
: M 0954 0 );  
: M 0955 0 CH$Copy ($CRD_Cat (xREMAINING), xC' ', Length - 1, CH$Ptr (Address + 1))  
: M 0956 0 )  
: 0957 0 x;
```

```

: 0958 0 xSBTTL 'The Message Outputter'
: 0959 0
: 0960 0 MACRO
: M 0961 0 $CRD_Message (Message_Type, Format) [] =
: M 0962 0 !+
: M 0963 0 ! The message_type defines what type of message this is. The types are as follows:
: M 0964 0 ! Same_Line, New_Line, and Star_Line.
: M 0965 0 ! The Format is a ASCII FAO string.
: M 0966 0 ! The [] are any variables needed to print the string.
: M 0967 0 !-
: M 0968 0
: M 0969 0 (
: M 0970 0 !+
: M 0971 0 ! First print the type of message. If the type of message is Star_Line , then print the
: M 0972 0 ! message prefix (i.e., it has a prefix and a suffix).
: M 0973 0 !-
: M 0974 0
: M 0975 0 xIF xIDENTICAL (Message_Type, 'Star_Line')
: M 0976 0 xTHEN
: M 0977 0 $CRD_Print (CRD$GT_Star_Line_Prefix_Message);
: M 0978 0 xELSE
: M 0979 0 $CRD_Print (xNAME ('CRD$GT_', Message_Type, '_Message'));
: M 0980 0 xFI
: M 0981 0
: M 0982 0 !+
: M 0983 0 ! Then print the formatted FAO string, along with any values.
: M 0984 0 !-
: M 0985 0
: M 0986 0 $CRD_Print
: M 0987 0 (
: M 0988 0 Format
: M 0989 0 xIF NOT xNULL (xREMAINING)
: M 0990 0 xTHEN
: M 0991 0 , xREMAINING
: M 0992 0 xFI
: M 0993 0 )
: M 0994 0
: M 0995 0 !+
: M 0996 0 ! Finally, if it was a Star_Line message, print the suffix.
: M 0997 0 !-
: M 0998 0
: M 0999 0 xIF xIDENTICAL (Message_Type, 'Star_Line')
: M 1000 0 xTHEN
: M 1001 0 ; $CRD_Print (CRD$GT_Star_Line_Suffix_Message)
: M 1002 0 xFI
: M 1003 0 )
: 1004 0 x;

```

```
; 1005 0 xSBTTL '$CRD_Return_Length_Status Macro'
; 1006 0
; 1007 0 MACRO
; M 1008 0 $CRD_Return_Length_Status (Status) =
; M 1009 0 RETURN (
; M 1010 0 (CRD$K_DS_Command_Size ^ 16) +
; M 1011 0 xIF xNULL (Status)
; M 1012 0 xTHEN
; M 1013 0 CRD$K_Success
; M 1014 0 xELSE
; M 1015 0 Status
; M 1016 0 xFI
; M 1017 0 )
; 1018 0 x;
; 1019 0
; 1020 0
; 1021 0
```



```
: 1022 0 xSBTTL '$CRD_Queue_Head Macro'
: 1023 0
: 1024 0 FIELD
: 1025 0 Queue_Head_Fields =
: 1026 0 SET
: 1027 0 CRD$V_First_Entry = [0, 0, 32, 0],
: 1028 0 CRD$V_Last_Entry = [1, 0, 32, 0]
: 1029 0 TES;
: 1030 0
: M 1031 0 MACRO $CRD_Queue_Head =
: M 1032 0 VECTOR [2, LONG]
: M 1033 0 FIELD Queue_Head_Fields
: 1034 0 x;
```

```
: 1035 0 xSBTTL 'Device Data Block_Structure Definition'
: 1036 0
: 1037 0 STRUCTURE
: 1038 0 !+
: 1039 0 ! Note that no allocation-formals are given since these Data Blocks will be allocated
: 1040 0 ! dynamically. Merely define the accessing-formals.
: 1041 0 !-
: 1042 0
: 1043 0 Device_Data_Block_Structure
: 1044 0 [Entry] =
: 1045 1 (
: 1046 1 IF ((Entry * 4) GEQ CRD$K_DDB_Size) THEN
: 1047 1    x'FFFFFFFF'
: 1048 1 ELSE
: 1049 2    (Device_Data_Block_Structure + (Entry * 4))
: 1050 0 );
```

```

: 1051 0 xSBTTL 'General_Command_Structure Definition'
: 1052 0
: 1053 0 STRUCTURE
: 1054 0   General_Command_Structure
: 1055 0   [Com;
: 1056 0     Numb_Com, Com_Size = CRD$K_DS_Command_Size] =
: 1057 0     [Numb_Com * Com_Size]
: 1058 1     (
: 1059 1       (General_Command_Structure + (Com * Com_Size));
: 1060 1
: 1061 1     IF (Com GEQ Numb_Com) THEN
: 1062 1       xX'FFFFFFFF'
: 1063 1     ELSE
: 1064 2       (General_Command_Structure + (Com * Com_Size))
: 1065 0     );
: 1066 0 xSBTTL 'State_Table_Structure Definition'
: 1067 0
: 1068 0 STRUCTURE
: 1069 0   State_Table_Structure
: 1070 0   [TypeCode, State, Contents;
: 1071 0     Numb_TypeCodes, Numb_States] =
: 1072 0     [Numb_TypeCodes * Numb_States * 4]
: 1073 1     (
: 1074 1       (State_Table_Structure + (TypeCode*Numb_States*4) + (State*4));
: 1075 1
: 1076 1     IF (TypeCode GEQ Numb_TypeCodes) THEN
: 1077 1       xX'FFFFFFFF'
: 1078 1     ELSE IF (State GEQ Numb_States) THEN
: 1079 1       xX'FFFFFFFF'
: 1080 1     ELSE
: 1081 2       (State_Table_Structure + (TypeCode*Numb_States*4) + (State*4))
: 1082 0     ) <Contents * 16, 16>;
: 1083 0 xSBTTL 'MM_State_Table_Structure Definition'
: 1084 0
: 1085 0 STRUCTURE
: 1086 0   MM_State_Table_Structure
: 1087 0   [TypeCode, State, Contents;
: 1088 0     Numb_TypeCodes, Numb_States] =
: 1089 0     [Numb_TypeCodes * Numb_States * 4]
: 1090 1     (
: 1091 1       (MM_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4));
: 1092 1
: 1093 1     IF (TypeCode GEQ Numb_TypeCodes) THEN
: 1094 1       xX'FFFFFFFF'
: 1095 1     ELSE IF (State GEQ Numb_States) THEN
: 1096 1       xX'FFFFFFFF'
: 1097 1     ELSE
: 1098 2       (MM_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4))
: 1099 0     ) <Contents * 16, 16>;
: 1100 0 xSBTTL 'TQ_State_Table_Structure Definition'
: 1101 0
: 1102 0 STRUCTURE
: 1103 0   TQ_State_Table_Structure
: 1104 0   [TypeCode, State, Contents;
: 1105 0     Numb_TypeCodes, Numb_States] =

```

```

; 1106 0 [Numb_TypeCodes * Numb_States * 4]
; 1107 1 (
; 1108 1 (TQ_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4));
; 1109 1
; 1110 1 IF (TypeCode GEQ Numb_TypeCodes) THEN
; 1111 1   xX'FFFFFFFF'
; 1112 1 ELSE IF (State GEQ Numb_States) THEN
; 1113 1   xX'FFFFFFFF'
; 1114 1 ELSE
; 1115 2   (TQ_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4))
; 1116 0   ) <Contents * 16, 16>;
; 1117 0 xSBTTL 'HS_State_Table_Structure Definition'
; 1118 0
; 1119 0 STRUCTURE
; 1120 0 HS_State_Table_Structure
; 1121 0 [TypeCode, State, Contents;
; 1122 0   Numb_TypeCodes, Numb_States] =
; 1123 0 [Numb_TypeCodes * Numb_States * 4]
; 1124 1 (
; 1125 1 (HS_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4));
; 1126 1
; 1127 1 IF (TypeCode GEQ Numb_TypeCodes) THEN
; 1128 1   xX'FFFFFFFF'
; 1129 1 ELSE IF (State GEQ Numb_States) THEN
; 1130 1   xX'FFFFFFFF'
; 1131 1 ELSE
; 1132 2   (HS_State_Table_Structure + (TypeCode*Numb_States*4) + (State*4))
; 1133 0   ) <Contents * 16, 16>;
; 1134 0 xSBTTL 'Hardware_Support_Structure Definition'
; 1135 0
; 1136 0 STRUCTURE
; 1137 0 Hardware_Support_Structure
; 1138 0 [Diag, Entry;
; 1139 0   Numb_Diags, Numb_Entries] =
; 1140 0 [Numb_Diags * Numb_Entries * 4]
; 1141 1 (
; 1142 1 (Hardware_Support_Structure + (Diag * Numb_Entries * 4) + (Entry * 4));
; 1143 1
; 1144 1 IF (Diag GEQ Numb_Diags) THEN
; 1145 1   xX'FFFFFFFF'
; 1146 1 ELSE IF (Entry GEQ Numb_Entries) THEN
; 1147 1   xX'FFFFFFFF'
; 1148 1 ELSE
; 1149 2   (Hardware_Support_Structure + (Diag * Numb_Entries * 4) + (Entry * 4))
; 1150 0   );
; 1151 0 xSBTTL 'Hardware_Support_Vector Structure Definition'
; 1152 0
; 1153 0 STRUCTURE
; 1154 0 !*
; 1155 0 ! Define this structure with no allocation-formals. It will be used to MAP storage
; 1156 0 ! to a particular vector in the Hardware_Support_Table.
; 1157 0 !-
; 1158 0
; 1159 0 Hardware_Support_Vector
; 1160 0 [Entry] =

```

J 4
ZZ-ENSAB-2.0 Hardware_Support_Vector Structure Definition 19-Sep-1985 Fiche 2 Frame J4 Sequence 254
BLISS CRD Macros 19-Sep-1985 16:30:54 VAX-11 Bliss-32 V4.1-746 Page 31
Hardware_Support_Vector Structure Definition 23-Jul-1985 10:45:58 DISK\$DIAGPACK03:[DS.CRD.V020]CRD.R32;1 (17)

```
: 1161 1  (  
: 1162 1  IF (Entry GEQ CRD$K_Numb_Support_Entries) THEN  
: 1163 1    ZX'FFFFFFFF'  
: 1164 1  ELSE  
: 1165 2    (Hardware_Support_Vector + (Entry * 4))  
: 1166 0  );
```

```

: 1167 0 xSBTTL 'Linkages'
: 1168 0
: 1169 0 LINKAGE
: 1170 0 JSB_Begin = JSB,
: 1171 0
: 1172 0 JSB_Scan_Numeric = JSB (
: 1173 0   REGISTER = 3, REGISTER = 4, REGISTER = 5;
: 1174 0   REGISTER = 0
: 1175 0 ),
: 1176 0
: 1177 0 JSB_NO_REGS = JSB : NOPRESERVE (2,3,4,5,6,7,8,9,10,11),
: 1178 0
: 1179 0 JSB_RO_R1 = JSB (REGISTER = 0, REGISTER = 1) : NOPRESERVE (3,4,5,6,7,8,9,10,11) PRESERVE (2);

```

```
; 1180 0 %SBTTL 'External Routine Declarations'
; 1181 0
; 1182 0 EXTERNAL ROUTINE
; 1183 0 !+
; 1184 0 ! From the CRDACT1 module:
; 1185 0 !-
; 1186 0
; 1187 0 CRD$AutoSizer_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1188 0 ! The AutoSizer had a problem.
; 1189 0
; 1190 0 CRD$Diagnostic_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1191 0 ! A diagnostic reported an ERRxxxx.
; 1192 0
; 1193 0 CRD$Exit_CRD : ADDRESSING_MODE (LONG_RELATIVE),
; 1194 0 ! Exit the CRD process
; 1195 0
; 1196 0 CRD$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1197 0 ! An internal error (i.e., ERRSUP or CRD) occurred.
; 1198 0
; 1199 0 CRD$Load_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1200 0 ! An error occurred in loading a diagnostic
; 1201 0
; 1202 0 CRD$Preparation_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1203 0 ! An ERRPREP occurred while running a diagnostic.
; 1204 0
; 1205 0 CRD$Print_DDB : ADDRESSING_MODE (LONG_RELATIVE),
; 1206 0 ! Print the contents of a DDB
; 1207 0
; 1208 0 CRD$Start_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1209 0 ! An error occurred starting a diagnostic
; 1210 0
; 1211 0 !+
; 1212 0 ! From the CRDACT2 module:
; 1213 0 !-
; 1214 0
; 1215 0 CRD$Advance_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
; 1216 0 ! Advance to the next diagnostic
; 1217 0
; 1218 0 CRD$Advance_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
; 1219 0 ! Go to the next general command
; 1220 0
; 1221 0 CRD$Assign_PTable_Ptrs : ADDRESSING_MODE (LONG_RELATIVE),
; 1222 0 ! Insert the PTable pointers into the DDBs
; 1223 0
; 1224 0 CRD$AutoSizer_Set_Flags : ADDRESSING_MODE (LONG_RELATIVE),
; 1225 0 ! Load the AutoSizer's SET FLAGS command.
; 1226 0
; 1227 0 CRD$Done_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
; 1228 0 ! All done executing the set of general commands
; 1229 0
; 1230 0 CRD$Level_4_Passed : ADDRESSING_MODE (LONG_RELATIVE),
; 1231 0 ! Print PASSED for the level 4 diagnostic that runs previous to ours
; 1232 0
; 1233 0 CRD$Load_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 1234 0 ! Load the AutoSizer
```

```

1235 0
1236 0 CRD$Load_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
1237 0 ! Load a general command into the CLI data buffer
1238 0
1239 0 CRD$Load_Load_Com : ADDRESSING_MODE (LONG_RELATIVE),
1240 0 ! Load a LOAD command into the CLI buffer.
1241 0
1242 0 CRD$Load_Select_Com : ADDRESSING_MODE (LONG_RELATIVE),
1243 0 ! Load a SELECT command into the CLI buffer.
1244 0
1245 0 CRD$Load_Set_Event_Com : ADDRESSING_MODE (LONG_RELATIVE),
1246 0 ! Load a SET EVENT command into the CLI buffer.
1247 0
1248 0 CRD$Load_Set_Flags_Com : ADDRESSING_MODE (LONG_RELATIVE),
1249 0 ! Load a SET FLAGS command into the CLI buffer.
1250 0
1251 0 CRD$Load_Start_Com : ADDRESSING_MODE (LONG_RELATIVE),
1252 0 ! Load a START command into the CLI buffer.
1253 0
1254 0 CRD$Set_Up_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
1255 0 ! Perform setup for the next diagnostic (print testing started, etc).
1256 0
1257 0 CRD$Start_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
1258 0 ! Start the AutoSizer executing
1259 0
1260 0 !+
1261 0 ! From the CRDCTRLC module:
1262 0 !-
1263 0
1264 0 CRD$Set_Ctrl_C_Handlers : JSB_RO_R1 NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1265 0
1266 0 CRD$Clear_Ctrl_C_Handlers : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1267 0
1268 0 CRD$Disable_Ctrl_C : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1269 0
1270 0 CRD$Enable_Ctrl_C : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1271 0
1272 0 CRD$Set_Ctrl_C_Flag : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1273 0
1274 0 CRD$Clear_Ctrl_C_Flag : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1275 0
1276 0 CRD$Check_Ctrl_C : JSB_NO_REGS ADDRESSING_MODE (LONG_RELATIVE),
1277 0
1278 0 !+
1279 0 ! From the CRDDDB module:
1280 0 !-
1281 0
1282 0 CRD$Build_DDBs : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1283 0 ! Build the queue of DDBs
1284 0
1285 0 CRD$Dispose : ADDRESSING_MODE (LONG_RELATIVE),
1286 0 ! Dispose of non-paged pool memory.
1287 0
1288 0 CRD$Init_DDB_Status : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
1289 0 ! Initialize the status bits in a DDB

```



```
: 1290 0
: 1291 0 CRD$New : ADDRESSING_MODE (LONG_RELATIVE),
: 1292 0 ! Allocate a block of non-paged pool.
: 1293 0
: 1294 0 !+
: 1295 0 ! From the CRDGENCOM module:
: 1296 0 !-
: 1297 0
: 1298 0 CRD$Get_General_Command : ADDRESSING_MODE (LONG_RELATIVE),
: 1299 0 ! Get the General_Commands command pointer
: 1300 0
: 1301 0 CRD$Init_General_Com_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1302 0 ! Initialize the General_Commands table
: 1303 0
: 1304 0 CRD$Print_Command_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1305 0 ! Print the contents of the general command table
: 1306 0
: 1307 0 !+
: 1308 0 ! From the CRDHDWSUP module:
: 1309 0 !-
: 1310 0
: 1311 0 CRD$Build_Support_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1312 0 ! [01]
: 1313 0 ! Initialize the Hardware Support table
: 1314 0
: 1315 0 CRD$Print_Hardware_Support : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1316 0 ! Print the contents of the hardware support table
: 1317 0
: 1318 0 !+
: 1319 0 ! From the CRDHSACT module:
: 1320 0 !-
: 1321 0
: 1322 0 HS$Init_HS : ADDRESSING_MODE (LONG_RELATIVE),
: 1323 0 HS$Advance_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
: 1324 0 HS$Load_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1325 0 HS$Advance_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1326 0 HS$Done_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1327 0 HS$Load_Load_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1328 0 HS$Load_Set_Flags_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1329 0 HS$Load_Set_Event_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1330 0 HS$Load_Select_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1331 0 HS$Load_Start_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1332 0 HS$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
: 1333 0 HS$Load_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1334 0 HS$Start_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1335 0 HS$Diagnostic_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1336 0 HS$Preparation_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1337 0 HS$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1338 0
: 1339 0 CRD$Print_DS_Command : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1340 0
: 1341 0 !+
: 1342 0 ! From the CRDINIT module:
: 1343 0 !-
: 1344 0
```

```
; 1345 0 CRD$Common_Initializations : ADDRESSING_MODE (LONG_RELATIVE),
; 1346 0 ! Initializations common to both CRD Menu Test and CRD Auto Test
; 1347 0
; 1348 0 CRD$CRD_Initialization : ADDRESSING_MODE (LONG_RELATIVE),
; 1349 0 ! The initialization routine for the CRD Auto Test code.
; 1350 0
; 1351 0 !+
; 1352 0 ! From the CRDINTRFC module:
; 1353 0 !-
; 1354 0
; 1355 0 CRD$DS_Interface : ADDRESSING_MODE (LONG_RELATIVE),
; 1356 0 ! The interface routine between the Resident-DS and CRD-Loadable
; 1357 0
; 1358 0 !+
; 1359 0 ! From the CRDMMACT module:
; 1360 0 !-
; 1361 0
; 1362 0 MM$Print_Menu_Heading : ADDRESSING_MODE (LONG_RELATIVE),
; 1363 0 MM$Load_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 1364 0 MM$Set_Flags_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 1365 0 MM$Start_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 1366 0 MM$Build_DDBs : ADDRESSING_MODE (LONG_RELATIVE),
; 1367 0 MM$Build_HSTs : ADDRESSING_MODE (LONG_RELATIVE),
; 1368 0 MM$Done_Inits : ADDRESSING_MODE (LONG_RELATIVE),
; 1369 0 MM$Print_Menu : ADDRESSING_MODE (LONG_RELATIVE),
; 1370 0 MM$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
; 1371 0 MM$Menu_Prompt : ADDRESSING_MODE (LONG_RELATIVE),
; 1372 0 MM$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1373 0 MM$AutoSizer_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 1374 0 MEN$Menu_Test_Internal_Error : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 1375 0 MEN$Undo_DCDT_Symbol : ADDRESSING_MODE (LONG_RELATIVE),
; 1376 0
; 1377 0 !+
; 1378 0 ! From the CRDPTABLE module:
; 1379 0 !-
; 1380 0
; 1381 0 CRD$Find_PTable : ADDRESSING_MODE (LONG_RELATIVE),
; 1382 0 ! Find a PTable containing a certain device name
; 1383 0
; 1384 0 CRD$Get_Device_Name : ADDRESSING_MODE (LONG_RELATIVE),
; 1385 0 ! Return the ASCII device name from a ptable
; 1386 0
; 1387 0 CRD$Print_PTables : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 1388 0 ! Print information in the PTables
; 1389 0
; 1390 0 !+
; 1391 0 ! From the CRDSTATE module:
; 1392 0 !-
; 1393 0
; 1394 0 CRD$Get_Action_Routine : ADDRESSING_MODE (LONG_RELATIVE),
; 1395 0 ! Get the current action routine number
; 1396 0
; 1397 0 CRD$Get_State : ADDRESSING_MODE (LONG_RELATIVE),
; 1398 0 ! Get the current state number
; 1399 0
```

```
: 1400 0 CRD$Init_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1401 0 ! Initialize the CRD$GW_State_Table
: 1402 0
: 1403 0 CRD$Turing_Machine : ADDRESSING_MODE (LONG_RELATIVE),
: 1404 0 ! Step through the state table
: 1405 0
: 1406 0 CRD$Print_Action_Routine : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1407 0 ! Print a message saying what action routine number this is
: 1408 0
: 1409 0 !+
: 1410 0 ! From the CRDSTOP module:
: 1411 0 !-
: 1412 0
: 1413 0 CRD$Control_C_Handler : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1414 0 ! Handles Control-C's during the running of CRD
: 1415 0
: 1416 0 CRD$Stop : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1417 0 ! Stop the CRD image.
: 1418 0
: 1419 0 CRD$Auto_Summary : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1420 0 ! Print an Auto Summary of Auto Test.
: 1421 0
: 1422 0 CRD$Screen_Pause : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1423 0 ! Stop video screen output until operator asks to continue. [02]
: 1424 0
: 1425 0 !+
: 1426 0 ! From the CRDTQACT module:
: 1427 0 !-
: 1428 0
: 1429 0 TQ$Init_TQ : ADDRESSING_MODE (LONG_RELATIVE),
: 1430 0 TQ$Get_DDB : ADDRESSING_MODE (LONG_RELATIVE),
: 1431 0 TQ$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
: 1432 0 TQ$Done_Test_Queue : ADDRESSING_MODE (LONG_RELATIVE),
: 1433 0 TQ$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1434 0
: 1435 0 !+
: 1436 0 ! From the CRDTYPCOD module:
: 1437 0 !-
: 1438 0
: 1439 0 CRD$Print_TypeCode_Name : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1440 0 ! Print a message for typecode number
: 1441 0
: 1442 0 !+
: 1443 0 ! From the MENTURING module:
: 1444 0 !-
: 1445 0
: 1446 0 MEN$Init_MM_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1447 0 MEN$Init_TQ_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1448 0 MEN$Init_HS_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 1449 0
: 1450 0 MEN$Turing_Machine : ADDRESSING_MODE (LONG_RELATIVE),
: 1451 0
: 1452 0 MEN$Print_Action_Routine : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
```

```
; 1453 0 %SBTTL 'External Longword Storage'
; 1454 0
; 1455 0 EXTERNAL
; 1456 0 !+
; 1457 0 ! From the CRDACT1 module:
; 1458 0 !-
; 1459 0
; 1460 0 CRD$GL_Total_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1461 0 ! The total of all the Error_Count's below
; 1462 0
; 1463 0 CRD$GL_Other_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1464 0 ! The total of other errors that occur (e.g., exceptions, command
; 1465 0 ! errors, etc.)
; 1466 0
; 1467 0 CRD$GL_Hard_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1468 0 ! A count of how many ERRHARD's were detected
; 1469 0
; 1470 0 CRD$GL_Soft_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1471 0 ! A count of how many ERRSOFT's were detected
; 1472 0
; 1473 0 CRD$GL_Sys_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1474 0 ! A count of how many ERRSYS's were detected
; 1475 0
; 1476 0 CRD$GL_Dev_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1477 0 ! A count of how many ERRDEV's were detected
; 1478 0
; 1479 0 CRD$GL_Prep_Error_Count : ADDRESSING_MODE (LONG_RELATIVE),
; 1480 0 ! A count of how many ERRPREP's were detected
; 1481 0
; 1482 0 !+
; 1483 0 ! From the CRDDDB module:
; 1484 0 !-
; 1485 0
; 1486 0 CRD$GA_Current_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
; 1487 0 ! A pointer to the DDB for which we are now running a diagnostic
; 1488 0
; 1489 0 CRD$GA_First_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
; 1490 0 ! A pointer to the first DDB in the queue (i.e., the head).
; 1491 0
; 1492 0 !+
; 1493 0 ! From the CRDGENCOM module:
; 1494 0 !-
; 1495 0
; 1496 0 CRD$GL_Current_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
; 1497 0 ! The current general command pointer
; 1498 0
; 1499 0 !+
; 1500 0 ! From the CRDINIT module:
; 1501 0 !-
; 1502 0
; 1503 0 CRD$GL_Saved_DSA_Flags : ADDRESSING_MODE (LONG_RELATIVE),
; 1504 0 ! To save the settings of the DSA flags
; 1505 0
; 1506 0 !+
; 1507 0 ! From the CRDINTRFC module:
```

```
: 1508 0 !-  
: 1509 0  
: 1510 0 CRD$GB_User_Prompt_Okay : BYTE ADDRESSING_MODE (LONG_RELATIVE),  
: 1511 0 ! This allows a User_Prompt typecode to be allowed to execute  
: 1512 0
```

; 1513 0 !+
; 1514 0 ! From the CRDSTATE module:
; 1515 0 !-
; 1516 0

```

: 1517 0 CRD$GL_Current_Action : ADDRESSING_MODE (LONG_RELATIVE),
: 1518 0 ! This is the current action routine number
: 1519 0
: 1520 0 CRD$GL_Current_State : ADDRESSING_MODE (LONG_RELATIVE),
: 1521 0 ! This is the current state number
: 1522 0
: 1523 0 CRD$GL_Current_TypeCode : ADDRESSING_MODE (LONG_RELATIVE),
: 1524 0 ! This is the current typecode number
: 1525 0
: 1526 0 !+
: 1527 0 ! From the CRDVECS module:
: 1528 0 !-
: 1529 0
: 1530 0 CRD$AL_CRD_Dispatch_Vectors : ADDRESSING_MODE (LONG_RELATIVE),
: 1531 0 ! Location of the beginning of the CRD dispatch vectors
: 1532 0
: 1533 0 CRD$Exit_DS : ADDRESSING_MODE (LONG_RELATIVE),
: 1534 0 ! Location of the DSV$Exit routine
: 1535 0
: 1536 0 CRD$Print : ADDRESSING_MODE (LONG_RELATIVE),
: 1537 0 ! Location of the DSX$Print routine
: 1538 0
: 1539 0 CRD$GA_DS_Flags : ADDRESSING_MODE (LONG_RELATIVE),
: 1540 0 ! Location of the DS$GA_Flags longword
: 1541 0
: 1542 0 CRD$GA_DS_Ctrl_C_First : ADDRESSING_MODE (LONG_RELATIVE),
: 1543 0 ! Location of the 1st ^C handler address
: 1544 0
: 1545 0 CRD$GA_DS_Ctrl_C_Second : ADDRESSING_MODE (LONG_RELATIVE),
: 1546 0 ! Location of the 2nd ^C handler address
: 1547 0
: 1548 0 CRD$GA_PTable : ADDRESSING_MODE (LONG_RELATIVE),
: 1549 0 ! Location of the DS$GA_PTable longword
: 1550 0
: 1551 0 CRD$Exe$AloNonPaged : ADDRESSING_MODE (LONG_RELATIVE),
: 1552 0 ! Location of the EXE$AloNonPaged routine'
: 1553 0
: 1554 0 CRD$GA_User_Error_Text : ADDRESSING_MODE (LONG_RELATIVE),
: 1555 0 ! Location of the MsgAdr parameter to the ERRxxxx routines
: 1556 0
: 1557 0 CRD$Scan$Numeric : ADDRESSING_MODE (LONG_RELATIVE),
: 1558 0 ! Change ASCII numeric into longword numeric (from PARSE module)
: 1559 0
: 1560 0 CRD$Exe$DeaNonPaged : ADDRESSING_MODE (LONG_RELATIVE),
: 1561 0 ! Deallocate non-paged pool memory.
: 1562 0
: 1563 0 CRD$GA_Begin : ADDRESSING_MODE (LONG_RELATIVE),
: 1564 0 ! The address of the Begin label in the KERNEL module
: 1565 0
: 1566 0 CRD$GB_CRD_Debug : BYTE ADDRESSING_MODE (LONG_RELATIVE),
: 1567 0 ! This is set from the VDS side, and passed as a dispatch vector.
: 1568 0
: 1569 0 CRD$DSR$Check_MenuTest_Off_Set : ADDRESSING_MODE (LONG_RELATIVE),
: 1570 0 ! This returns a 1 iff the correct bits are set in the R5 passed to the VDS
: 1571 0 ! to signal CRD Menu Test Offline

```

```

: 1572 0      !      [01]
: 1573 0 CRD$DSR$Check_AutoTest_Off_Set : ADDRESSING_MODE (LONG_RELATIVE),
: 1574 0      ! This returns a 1 iff the correct bits are set in the R5 passed to the VDS
: 1575 0      ! to signal CRD Auto Test Offline
: 1576 0      !      [01]
: 1577 0      !+
: 1578 0      ! From the MENSTATE module:
: 1579 0      !-
: 1580 0
: 1581 0 CRD$GL_Previous_State : ADDRESSING_MODE (LONG_RELATIVE),
: 1582 0      ! The previous state number (in most cases)
: 1583 0
: 1584 0 CRD$GL_MM_Current_State : ADDRESSING_MODE (LONG_RELATIVE),
: 1585 0      ! The current Main Menu state number
: 1586 0
: 1587 0 CRD$GL_TQ_Current_State : ADDRESSING_MODE (LONG_RELATIVE),
: 1588 0      ! The current Test Queue state number
: 1589 0
: 1590 0 CRD$GL_HS_Current_State : ADDRESSING_MODE (LONG_RELATIVE),
: 1591 0      ! The current Hardware Support state number
: 1592 0
: 1593 0 CRD$GL_TQ_Current_TQ_Entry : ADDRESSING_MODE (LONG_RELATIVE),
: 1594 0      ! The current entry being used in the Test Queue Table.
: 1595 0
: 1596 0 CRD$GL_HS_Current_HSB_Numb : ADDRESSING_MODE (LONG_RELATIVE),
: 1597 0      ! The number of the current Hardware Support Block in the concatenated
: 1598 0      ! Hardware Support Block Table.
: 1599 0
: 1600 0 CRD$GA_HS_Current_DDB_Ptr : ADDRESSING_MODE (LONG_RELATIVE),
: 1601 0      ! A pointer to the current DDB being tested
: 1602 0
: 1603 0 CRD$GA_HS_Current_HSB_Ptr : ADDRESSING_MODE (LONG_RELATIVE),
: 1604 0      ! A pointer to the current Hardware Support Block.
: 1605 0
: 1606 0 CRD$GB_Current_State_Table : BYTE ADDRESSING_MODE (LONG_RELATIVE);
: 1607 0      ! A pointer to the current Menu Test state table

```



```

: 1608 0 xSBTTL 'External Table Storage'
: 1609 0
: 1610 0 EXTERNAL
: 1611 0 !+
: 1612 0 ! From the CRDGENCOM module:
: 1613 0 !-
: 1614 0
: 1615 0 CRD$GA_General_Commands : General_Command_Structure [CRD$K_Numb_General_Commands]
: 1616 0 ADDRESSING_MODE (LONG_RELATIVE),
: 1617 0 ! The CRD$GA_General_Commands table - contains those commands that
: 1618 0 ! are executed once before starting each diagnostic.
: 1619 0 !+
: 1620 0 ! From the CRDHDWSUP module:
: 1621 0 !-
: 1622 0
: 1623 0 CRD$GB_Base_System : BYTE ADDRESSING_MODE (LONG_RELATIVE),
: 1624 0 ! [01]
: 1625 0 CRD$GA_Hdwr_Sprt_Table : ADDRESSING_MODE (LONG_RELATIVE),
: 1626 0 CRD$AL_IDC_Hdwr_Sprt_Table :
: 1627 0 Hardware_Support_Structure [CRD$K_IDC_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1628 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1629 0
: 1630 0 CRD$AL_LESI_Hdwr_Sprt_Table :
: 1631 0 Hardware_Support_Structure [CRD$K_LESI_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1632 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1633 0
: 1634 0 CRD$AL_UDA_0_Hdwr_Sprt_Table :
: 1635 0 Hardware_Support_Structure [CRD$K_UDA_0_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1636 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1637 0
: 1638 0 CRD$AL_UDA_1_Hdwr_Sprt_Table :
: 1639 0 Hardware_Support_Structure [CRD$K_UDA_1_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1640 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1641 0
: 1642 0
: 1643 0 CRD$AL_UDA_2_Hdwr_Sprt_Table :
: 1644 0 Hardware_Support_Structure [CRD$K_UDA_0_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1645 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1646 0
: 1647 0 CRD$AL_UDA_3_Hdwr_Sprt_Table :
: 1648 0 Hardware_Support_Structure [CRD$K_UDA_1_Numb_Diagnostics, CRD$K_Numb_Support_Entries]
: 1649 0 ADDRESSING_MODE (LONG_RELATIVE),! [01]
: 1650 0
: 1651 0 !+
: 1652 0 ! From the CRDMESSAG module:
: 1653 0 !-
: 1654 0
: 1655 0 CRD$GA_CRD_Message_Buffer :
: 1656 0 VECTOR [CRD$K_CRD_Message_Buffer_Len, BYTE]
: 1657 0 ADDRESSING_MODE (LONG_RELATIVE),
: 1658 0
: 1659 0 !+
: 1660 0 ! From the CRDSTATE module:
: 1661 0 !-
: 1662 0

```

```

: 1663 0 CRD$GW_State_Table :
: 1664 0   State_Table_Structure [CRD$K_Numb_TypeCodes, CRD$K_Numb_States]
: 1665 0   ADDRESSING_MODE (LONG_RELATIVE),
: 1666 0
: 1667 0 !+
: 1668 0 ! From the CRDStop Module:
: 1669 0
: 1670 0 CRD$GL_CRD_Debug_Vector :
: 1671 0   VECTOR [CRD$K_Total_Numb_Vectors, LONG]
: 1672 0   ADDRESSING_MODE (LONG_RELATIVE),
: 1673 0
: 1674 0 !+
: 1675 0 ! From the MENSTATE module:
: 1676 0 !-
: 1677 0
: 1678 0 CRD$GAW_MM_State_Table :
: 1679 0   MM_State_Table_Structure [CRD$K_Numb_TypeCodes, MM$K_Numb_States]
: 1680 0   ADDRESSING_MODE (LONG_RELATIVE),
: 1681 0
: 1682 0 CRD$GAW_TQ_State_Table :
: 1683 0   TQ_State_Table_Structure [CRD$K_Numb_TypeCodes, TQ$K_Numb_States]
: 1684 0   ADDRESSING_MODE (LONG_RELATIVE),
: 1685 0
: 1686 0 CRD$GAW_HS_State_Table :
: 1687 0   HS_State_Table_Structure [CRD$K_Numb_TypeCodes, HS$K_Numb_States]
: 1688 0   ADDRESSING_MODE (LONG_RELATIVE);
: 1689 0

```

```

: 1690 0 %SBTTL 'External ASCIC Bindings'
: 1691 0
: 1692 0 EXTERNAL
: 1693 0 !*
: 1694 0 ! From the CRDHDWSUP module:
: 1695 0 !-
: 1696 0
: 1697 0 CRD$GT_DS_LOAD_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1698 0 CRD$GT_DS_SET_FLAGS_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1699 0 CRD$GT_DS_SET_EVENT_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1700 0 CRD$GT_DS_SELECT_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1701 0 CRD$GT_DS_START_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 1702 0
: 1703 0 !*
: 1704 0 ! From the CRDMESSAG module:
: 1705 0 !-
: 1706 0
: 1707 0 CRD$GT_New_Line : ADDRESSING_MODE (LONG_RELATIVE),
: 1708 0 CRD$GT_Tab : ADDRESSING_MODE (LONG_RELATIVE),
: 1709 0 CRD$GT_2_Tabs : ADDRESSING_MODE (LONG_RELATIVE),
: 1710 0 CRD$GT_Space_AND_Space : ADDRESSING_MODE (LONG_RELATIVE),
: 1711 0 CRD$GT_Slash : ADDRESSING_MODE (LONG_RELATIVE), ! [2]
: 1712 0 CRD$GT_Unknown : ADDRESSING_MODE (LONG_RELATIVE), ! [2]
: 1713 0 ! CRD$GT_Clear_Screen : ADDRESSING_MODE (LONG_RELATIVE), ! [2]
: 1714 0 ! CRD$GT_Clear_Screen_VT52 : ADDRESSING_MODE (LONG_RELATIVE), ! [2]
: 1715 0
: 1716 0 CRD$GT_Menu : ADDRESSING_MODE (LONG_RELATIVE),
: 1717 0 CRD$GT_Auto : ADDRESSING_MODE (LONG_RELATIVE),
: 1718 0 CRD$GT_Which_CRD : ADDRESSING_MODE (LONG_RELATIVE),
: 1719 0
: 1720 0 CRD$GT_Testing_Device : ADDRESSING_MODE (LONG_RELATIVE),
: 1721 0 CRD$GT_Testing_Started : ADDRESSING_MODE (LONG_RELATIVE),
: 1722 0 CRD$GT_RunTime : ADDRESSING_MODE (LONG_RELATIVE),
: 1723 0 CRD$GT_Fail : ADDRESSING_MODE (LONG_RELATIVE),
: 1724 0 CRD$GT_Pass : ADDRESSING_MODE (LONG_RELATIVE),
: 1725 0
: 1726 0 CRD$GT_CRD_No_Errors : ADDRESSING_MODE (LONG_RELATIVE),
: 1727 0 CRD$GT_CRD_Errors_Complete : ADDRESSING_MODE (LONG_RELATIVE),
: 1728 0 CRD$GT_CRD_Bad_Device : ADDRESSING_MODE (LONG_RELATIVE),
: 1729 0 CRD$GT_CRD_Dev_UnTested : ADDRESSING_MODE (LONG_RELATIVE),
: 1730 0 CRD$GT_CRD_Incomplete : ADDRESSING_MODE (LONG_RELATIVE),
: 1731 0 CRD$GT_CRD_EVSBA_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1732 0 CRD$GT_CRD_EVSBB_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1733 0 CRD$GT_Internal_Error_Abort : ADDRESSING_MODE (LONG_RELATIVE),
: 1734 0 CRD$GT_Control_C_Abort : ADDRESSING_MODE (LONG_RELATIVE),
: 1735 0
: 1736 0 CRD$GT_CRD_End_Message : ADDRESSING_MODE (LONG_RELATIVE),
: 1737 0 CRD$GT_Exit_To_Console : ADDRESSING_MODE (LONG_RELATIVE),
: 1738 0 CRD$GT_Exit_To_CLI : ADDRESSING_MODE (LONG_RELATIVE),
: 1739 0 CRD$GT_Press_Return : ADDRESSING_MODE (LONG_RELATIVE), ! [07]
: 1740 0 CRD$GT_Press_Return_MM : ADDRESSING_MODE (LONG_RELATIVE), ! [07]
: 1741 0
: 1742 0 CRD$GT_Star_Line_Prefix_Message : ADDRESSING_MODE (LONG_RELATIVE),
: 1743 0 CRD$GT_Star_Line_Suffix_Message : ADDRESSING_MODE (LONG_RELATIVE),
: 1744 0 CRD$GT_Same_Line_Message : ADDRESSING_MODE (LONG_RELATIVE),
    
```

```
: 1745 0 CRD$GT_New_Line_Message : ADDRESSING_MODE (LONG_RELATIVE),
: 1746 0
: 1747 0 CRD$GT_Dev_Unavailable : ADDRESSING_MODE (LONG_RELATIVE),
: 1748 0 CRD$GT_Dev_Unavailable_2 : ADDRESSING_MODE (LONG_RELATIVE),
: 1749 0 CRD$GT_Cannot_Load_Diag : ADDRESSING_MODE (LONG_RELATIVE),
: 1750 0 CRD$GT_Start_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1751 0 CRD$GT_Prep_Error_Spaces : ADDRESSING_MODE (LONG_RELATIVE),
: 1752 0 CRD$GT_Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1753 0 CRD$GT_AutoSizer_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 1754 0 CRD$GT_Inv_Base_System : ADDRESSING_MODE (LONG_RELATIVE), ! [01]
: 1755 0 CRD$GT_CRD_Fatal_Error : ADDRESSING_MODE (LONG_RELATIVE), ! [01]
: 1756 0
: 1757 0 CRD$GT_DS_Command_Out : ADDRESSING_MODE (LONG_RELATIVE),
: 1758 0
: 1759 0 CRD$GT_All_Failures : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1760 0 CRD$GT_Init_All_Passes : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1761 0 CRD$GT_All_Passes : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1762 0 CRD$GT_All_Inc_Hdwr_Prep : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1763 0 CRD$GT_All_Others : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1764 0 CRD$GT_Summary_Title : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1765 0
: 1766 0 !+
: 1767 0 ! From the CRDMMACT module:
: 1768 0 !-
: 1769 0
: 1770 0 CRD$GT_AutoSizer_Name : ADDRESSING_MODE (LONG_RELATIVE),
: 1771 0 CRD$GT_AutoSizer_Set_Flags : ADDRESSING_MODE (LONG_RELATIVE);
```

```
: 1772 0 xSBTTL 'LITERALS'
: 1773 0
: M 1774 0 MACRO $MEN_Literals =
: M 1775 0
: M 1776 0 LITERAL
: M 1777 0 $Equlst (MEN$K_TstCtg_,GLOBAL,0,1
: M 1778 0 ! CRD MENU device test category definitions
: M 1779 0 ,(NULL) ! NULL Device test category
: M 1780 0 ,(CPU) ! CPU device test category
: M 1781 0 ,(Memory) ! MEMORY device test category
: M 1782 0 ,(IO_Adaptor) ! I/O Adaptor device test category
: M 1783 0 ,(IO_Controller)! I/O Controller device test category
: M 1784 0 ,(IO_Unit) ! I/O Unit device test category
: M 1785 0 );
: M 1786 0
: M 1787 0 LITERAL
: M 1788 0 $Equlst (MEN$K_TstCla_,GLOBAL,0,1
: M 1789 0 ! CRD MENU device test class definitions
: M 1790 0 ,(NULL) ! NULL Test Class
: M 1791 0 ,(CPU) ! CPU test class
: M 1792 0 ,(Memory) ! Memory test class
: M 1793 0 ,(Disk) ! Disk test class
: M 1794 0 ,(Tape) ! Tape test class
: M 1795 0 ,(Comm) ! Communication test class
: M 1796 0 ,(Real) ! Realtime test class
: M 1797 0 ,(Term) ! Terminal test class
: M 1798 0 ,(Printer) ! Printer test class
: M 1799 0 ,(Card) ! Card Reader test class
: M 1800 0 ,(IO_Adaptor) ! I/O Adaptor test class
: M 1801 0 ,(ALL) ! denotes all test classes
: M 1802 0 ,(Last_Entry)
: M 1803 0 );
: M 1804 0
: M 1805 0
: M 1806 0 LITERAL
: M 1807 0 $Equlst (MEN$K_DevTstPrep_,GLOBAL,0,1
: M 1808 0 ! CRD MENU message code for hardware test preparation.
: M 1809 0 ! Represents text that describes the
: M 1810 0 ! hardware test preparation required for
: M 1811 0 ! testing
: M 1812 0 ,(Null) ! Null code
: M 1813 0 ,(1) ! device test preparation code #1
: M 1814 0 ,(2) ! device test preparation code #2
: M 1815 0 ,(3) ! device test preparation code #3
: M 1816 0 ,(4)
: M 1817 0 ,(5)
: M 1818 0 ,(6)
: M 1819 0 ,(7) ! ! [04]
: M 1820 0 );
: M 1821 0
: M 1822 0 LITERAL
: M 1823 0 $Equlst (MEN$K_FTMSeI_,,1,1
: M 1824 0 ! CRD Functional Test
: M 1825 0 ! Main Menu selection LITERALS.
: M 1826 0 ,(Exit) ! Exit selection
```

```

; M 1827 0 ,(Prep) ! Hardware Test Preparation typeout selection
; M 1828 0 ,(Test) ! Test Menu selection
; M 1829 0 ,(System_Hdwr) ! Identified System hardware typeout selection
; M 1830 0 ,(FncTst_All) ! Functional Test all devices
; M 1831 0 ,(Last_Entry)
; M 1832 0 );
; M 1833 0
; M 1834 0 LITERAL
; M 1835 0 $Equlst (MEN$K_CntIC_Sel_.,,1,1
; M 1836 J ! Control-C Test Menu selection Literals
; M 1837 0 ,(Exit) ! Exit selection
; M 1838 0 ,(Continue) ! Continue selection
; M 1839 0 ,(FTMenu) ! Functional Test Menu selection
; M 1840 0 ,(Last_Entry)
; M 1841 0 );
; M 1842 0
; M 1843 0 LITERAL
; M 1844 0 $Equlst (MEN$K_FTMRet_.,,1,1
; M 1845 0 ! CRD Functional Test Menu return codes
; M 1846 0 ,(Exit) ! Stop everything and exit
; M 1847 0 ,(Menu) ! Menu - do the Functional Test Menu
; M 1848 0 ,(Test) ! Test - Begin testing
; M 1849 0 ,(Failure) ! Fatal Failure in Functional Test Menu
; M 1850 0 );
; M 1851 0
; M 1852 0 LITERAL
; M 1853 0 MEN$K_TMenu_TstAll_DevNumb = 1, ! The device number for the
; M 1854 0 ! Test Menu 'test all'
; M 1855 0 ! choice
; M 1856 0 MEN$K_SelDev_Numb_Start = 1, ! Number to start allocating
; M 1857 0 ! select device numbers
; M 1858 0 MEN$K_TstTxt_OUTNam_Sz = 9, ! Maximum size of hardware
; M 1859 0 ! device name field in the
; M 1860 0 ! test start output text
; M 1861 0 MEN$K_TstTxt_TstCla_Sz = 9, ! Maximum size of test class
; M 1862 0 ! name field in the
; M 1863 0 ! test start output text
; M 1864 0 MEN$K_TstTxt_DevNam_Sz = 6, ! Maximum size of generic
; M 1865 0 ! device name field in the
; M 1866 0 ! test start output text
; M 1867 0
; M 1868 0 MEN$K_Prep_Error_Text_Len = 38, ! This is the length of the text part of the
; M 1869 0 ! standard preparation error message.
; M 1870 0
; M 1871 0 MEN$GK_Test_Queue = 3;
; M 1872 0 x;
; M 1873 0
; M 1874 0
; M 1875 0 KEYWORDMACRO
; M 1876 0
; M 1877 0 $MEN_ASKSTR ( msg_adr,
; M 1878 0 buf_adr,
; M 1879 0 max_len=72,
; M 1880 0 val_tab=0,
; M 1881 0 def_adr=0,
    
```

```
; M 1882 0      dev_typ=0) =
; M 1883 0
; M 1884 0      (
; M 1885 0      BEGIN
; M 1886 0      LOCAL
; M 1887 0          Status;
; M 1888 0      $DS_BREAK;
; M 1889 0          ! Check for Control-C
; M 1890 0      Status = $DS_ASKSTR (msgadr=msg_adr,bufadr=buf_adr,maxlen=max_len, valtab=val_tab,defadr=def_adr,devtyp=dev_typ);
; M 1891 0          ! prompt for input
; M 1892 0      $DS_BREAK;
; M 1893 0          ! Check for Control-C
; M 1894 0
; M 1895 0      .Status
; M 1896 0      END
; M 1897 0      )
;   1898 0      x;
;   1899 0
```

```
: 1900 0 xSBTTL 'Externals for Menu Test'
: 1901 0 EXTERNAL
: 1902 0 !+
: 1903 0 ! From the CRD MENU Message Module (MENMSG)
: 1904 0 !-
: 1905 0
: 1906 0 MEN$GT_MenuTest_Begin : ADDRESSING_MODE (LONG_RELATIVE),
: 1907 0
: 1908 0 MEN$GT_AutoSizer_Begin : ADDRESSING_MODE (LONG_RELATIVE),
: 1909 0 MEN$GT_AutoSizer_End : ADDRESSING_MODE (LONG_RELATIVE),
: 1910 0
: 1911 0 !+
: 1912 0 ! FUNCTIONAL TEST MAIN MENU
: 1913 0 !-
: 1914 0
: 1915 0 MEN$GT_FTMTtitle : ADDRESSING_MODE (LONG_RELATIVE),
: 1916 0 MEN$GT_FTMSel_Exit : ADDRESSING_MODE (LONG_RELATIVE),
: 1917 0 MEN$GT_FTMSel_Prep : ADDRESSING_MODE (LONG_RELATIVE),
: 1918 0 MEN$GT_FTMSel_Test : ADDRESSING_MODE (LONG_RELATIVE),
: 1919 0 MEN$GT_FTMSel_System_Hdwr : ADDRESSING_MODE (LONG_RELATIVE),
: 1920 0 MEN$GT_FTMSel_FncTst_All : ADDRESSING_MODE (LONG_RELATIVE),
: 1921 0 MEN$GT_FTM_Choice : ADDRESSING_MODE (LONG_RELATIVE),
: 1922 0 MEN$GT_FTMPrompt : ADDRESSING_MODE (LONG_RELATIVE),
: 1923 0 MEN$GT_FTMenu_Selection : ADDRESSING_MODE (LONG_RELATIVE),
: 1924 0
: 1925 0 !+
: 1926 0 ! TEST MENU
: 1927 0 !-
: 1928 0 MEN$GT_TMTtitle : ADDRESSING_MODE (LONG_RELATIVE),
: 1929 0 MEN$GT_TMenu_Selection : ADDRESSING_MODE (LONG_RELATIVE),
: 1930 0 MEN$GT_TMenu_TstAll : ADDRESSING_MODE (LONG_RELATIVE),
: 1931 0 MEN$GT_TM_Choice : ADDRESSING_MODE (LONG_RELATIVE),
: 1932 0 MEN$GT_TMPrompt : ADDRESSING_MODE (LONG_RELATIVE),
: 1933 0 MEN$GT_TM_Msg : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1934 0 MEN$GT_Press_Return_TM : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
: 1935 0
: 1936 0 !+
: 1937 0 ! TEST CLASS NAMES
: 1938 0 !-
: 1939 0 MEN$GT_TstCla_CPU : ADDRESSING_MODE (LONG_RELATIVE),
: 1940 0 MEN$GT_TstCla_Memory : ADDRESSING_MODE (LONG_RELATIVE),
: 1941 0 MEN$GT_TstCla_Disk : ADDRESSING_MODE (LONG_RELATIVE),
: 1942 0 MEN$GT_TstCla_Tape : ADDRESSING_MODE (LONG_RELATIVE),
: 1943 0 MEN$GT_TstCla_Comm : ADDRESSING_MODE (LONG_RELATIVE),
: 1944 0 MEN$GT_TstCla_Real : ADDRESSING_MODE (LONG_RELATIVE),
: 1945 0 MEN$GT_TstCla_Term : ADDRESSING_MODE (LONG_RELATIVE),
: 1946 0 MEN$GT_TstCla_Printer : ADDRESSING_MODE (LONG_RELATIVE),
: 1947 0 MEN$GT_TstCla_Card : ADDRESSING_MODE (LONG_RELATIVE),
: 1948 0 MEN$GT_TstCla_IOAdap : ADDRESSING_MODE (LONG_RELATIVE),
: 1949 0 MEN$GT_TstCla_All : ADDRESSING_MODE (LONG_RELATIVE),
: 1950 0 MEN$GT_TstCla_NullName : ADDRESSING_MODE (LONG_RELATIVE),
: 1951 0
: 1952 0 !+
: 1953 0 ! Hardware Device Test Preparation messages
: 1954 0 !-
```



```
; 1955 0
; 1956 0 MEN$GT_DevTstPrep_Null : ADDRESSING_MODE (LONG_RELATIVE),
; 1957 0 MEN$GT_DevTstPrep_1 : ADDRESSING_MODE (LONG_RELATIVE),
; 1958 0 MEN$GT_DevTstPrep_2 : ADDRESSING_MODE (LONG_RELATIVE),
; 1959 0 MEN$GT_DevTstPrep_3 : ADDRESSING_MODE (LONG_RELATIVE),
; 1960 0 MEN$GT_DevTstPrep_4 : ADDRESSING_MODE (LONG_RELATIVE),
; 1961 0 MEN$GT_DevTstPrep_5 : ADDRESSING_MODE (LONG_RELATIVE),
; 1962 0 MEN$GT_DevTstPrep_6 : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
; 1963 0 MEN$GT_DevTstPrep_7 : ADDRESSING_MODE (LONG_RELATIVE), ! [05]
; 1964 0 MEN$GT_DevTstPrep_Name : ADDRESSING_MODE (LONG_RELATIVE),
; 1965 0 MEN$GT_DevTstPrep_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 1966 0
; 1967 0 !+
; 1968 0 ! Print system Hardware text
; 1969 0 !-
; 1970 0
; 1971 0 MEN$GT_SysHdwr_Title : ADDRESSING_MODE (LONG_RELATIVE),
; 1972 0 MEN$GT_System_Hdwr_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 1973 0 MEN$GT_Supported : ADDRESSING_MODE (LONG_RELATIVE),
; 1974 0 MEN$GT_NoSupport : ADDRESSING_MODE (LONG_RELATIVE),
; 1975 0 MEN$GT_End_of_List : ADDRESSING_MODE (LONG_RELATIVE), ! [02]
; 1976 0 !+
; 1977 0 ! Warning messages
; 1978 0 !-
; 1979 0
; 1980 0 MEN$GT_InvOperInput : ADDRESSING_MODE (LONG_RELATIVE),
; 1981 0 MEN$GT_Call_FldSrv : ADDRESSING_MODE (LONG_RELATIVE),
; 1982 0 MEN$GT_Failed_Hdwr_Name : ADDRESSING_MODE (LONG_RELATIVE),
; 1983 0 MEN$GT_Prep_Error_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 1984 0 MEN$GT_Prep_Error_Text_No_User : ADDRESSING_MODE (LONG_RELATIVE),
; 1985 0 MEN$GT_ScrMedia_Msg : ADDRESSING_MODE (LONG_RELATIVE),
; 1986 0 MEN$GT_ScrMedia_Hdwr : ADDRESSING_MODE (LONG_RELATIVE),
; 1987 0 MEN$GT_ScrMedia_Hdwr_End : ADDRESSING_MODE (LONG_RELATIVE),
; 1988 0 MEN$GT_Failed_ONL_Autosizer : ADDRESSING_MODE (LONG_RELATIVE),
; 1989 0
; 1990 0 !+
; 1991 0 ! Info Messages
; 1992 0 !-
; 1993 0
; 1994 0 MEN$GT_FuncTest_Begin : ADDRESSING_MODE (LONG_RELATIVE),
; 1995 0 MEN$GT_CtrIC_FncTst : ADDRESSING_MODE (LONG_RELATIVE),
; 1996 0 MEN$GT_FncTst_Cmpl_NoErr : ADDRESSING_MODE (LONG_RELATIVE),
; 1997 0 MEN$GT_FncTst_Cmpl_Err : ADDRESSING_MODE (LONG_RELATIVE),
; 1998 0 MEN$GT_FncTst_InCmpl_NoErr : ADDRESSING_MODE (LONG_RELATIVE),
; 1999 0 MEN$GT_FncTst_InCmpl_Err : ADDRESSING_MODE (LONG_RELATIVE),
; 2000 0 MEN$GT_Exit_To_VDS : ADDRESSING_MODE (LONG_RELATIVE),
; 2001 0 MEN$GT_MenuTest_Aborted : ADDRESSING_MODE (LONG_RELATIVE),
; 2002 0 MEN$GT_Operator_Abort : ADDRESSING_MODE (LONG_RELATIVE),
; 2003 0 MEN$GT_Operator_Stop : ADDRESSING_MODE (LONG_RELATIVE),
; 2004 0 MEN$GT_Assistance_Msg : ADDRESSING_MODE (LONG_RELATIVE),
; 2005 0 MEN$GT_MenuTest_End_Message : ADDRESSING_MODE (LONG_RELATIVE),
; 2006 0 MEN$GT_FncTst_TestStrt_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 2007 0 MEN$GT_Runtime_Total : ADDRESSING_MODE (LONG_RELATIVE),
; 2008 0 MEN$GT_NULL : ADDRESSING_MODE (LONG_RELATIVE),
; 2009 0 MEN$GT_ScrMedia_Prompt : ADDRESSING_MODE (LONG_RELATIVE),
```

```
: 2010 0
: 2011 0 !+
: 2012 0 ! Error Messages
: 2013 0 !-
: 2014 0
: 2015 0 MEN$GT_NoAll_NonPgMem : ADDRESSING_MODE (LONG_RELATIVE),
: 2016 0 MEN$GT_Support_File_Not_Found : ADDRESSING_MODE (LONG_RELATIVE),
: 2017 0 MEN$GT_Support_File_Load_Err : ADDRESSING_MODE (LONG_RELATIVE),
: 2018 0
: 2019 0 !+
: 2020 0 ! Control-C Menu Text
: 2021 0 !-
: 2022 0
: 2023 0 MEN$GT_CntIC_Menu_Title : ADDRESSING_MODE (LONG_RELATIVE),
: 2024 0 MEN$GT_CntIC_Menu_Selection : ADDRESSING_MODE (LONG_RELATIVE),
: 2025 0 MEN$GT_CntIC_Sel_Exit : ADDRESSING_MODE (LONG_RELATIVE),
: 2026 0 MEN$GT_CntIC_Sel_Continue : ADDRESSING_MODE (LONG_RELATIVE),
: 2027 0 MEN$GT_CntIC_Sel_FTMenu : ADDRESSING_MODE (LONG_RELATIVE),
: 2028 0 MEN$GT_CntIC_Choice : ADDRESSING_MODE (LONG_RELATIVE),
: 2029 0 MEN$GT_CntIC_Menu_Prompt : ADDRESSING_MODE (LONG_RELATIVE),
: 2030 0 MEN$GT_CntIC_Continuing : ADDRESSING_MODE (LONG_RELATIVE),
: 2031 0
: 2032 0 MEN$GT_MenFuncSup_File : VECTOR [, BYTE] ADDRESSING_MODE (LONG_RELATIVE),
: 2033 0 MEN$GT_File_Default : VECTOR [, BYTE] ADDRESSING_MODE (LONG_RELATIVE);
```

```
; 2034 0 xSBTTL 'External Storage for Menu Test'
; 2035 0
; 2036 0 EXTERNAL
; 2037 0 MEN$GB_Test_In_Progress : BYTE ADDRESSING_MODE (LONG_RELATIVE),
; 2038 0 MEN$GB_FncTst_Init : BYTE ADDRESSING_MODE (LONG_RELATIVE);
; 2039 0 xSBTTL 'External Menu Test Tables'
; 2040 0
; 2041 0 LITERAL
; 2042 0 MEN$K_OperInput_Buffer_Size = 256;
; 2043 0
; 2044 0 MACRO
; M 2045 0 $MEN_OperInput_Buffer_ATTR =
; M 2046 0 VECTOR (MEN$K_OperInput_Buffer_Size, BYTE)
; 2047 0 x;
; 2048 0
; 2049 0 EXTERNAL
; 2050 0 MEN$GT_OperInput_Buffer : $MEN_OperInput_Buffer_ATTR
; 2051 0 ADDRESSING_MODE (LONG_RELATIVE);
```

```
; 2052 0 xSBTTL 'External Routines for Menu Test'
; 2053 0
; 2054 0 EXTERNAL ROUTINE
; 2055 0 !+
; 2056 0 ! from the MENTSTINI Module
; 2057 0 !-
; 2058 0
; 2059 0 MEN$Menu_FncTst_Init : ADDRESSING_MODE (LONG_RELATIVE),
; 2060 0 MEN$Build_DDB : ADDRESSING_MODE (LONG_RELATIVE),
; 2061 0 MEN$Determine_Support : ADDRESSING_MODE (LONG_RELATIVE),
; 2062 0 MEN$Specify_SelectNo : ADDRESSING_MODE (LONG_RELATIVE),
; 2063 0 MEN$Allocate_Memory : ADDRESSING_MODE (LONG_RELATIVE),
; 2064 0 MEN$Load_File : ADDRESSING_MODE (LONG_RELATIVE),
; 2065 0 MEN$Find_SupBlk : ADDRESSING_MODE (LONG_RELATIVE),
; 2066 0 MEN$Dump_TstQ_HST : ADDRESSING_MODE (LONG_RELATIVE),
; 2067 0 MEN$Menu_Cleanup : ADDRESSING_MODE (LONG_RELATIVE),
; 2068 0
; 2069 0 !+
; 2070 0 ! from the MENPROMPT Module
; 2071 0 !-
; 2072 0
; 2073 0 MEN$FuncTest_Menu : ADDRESSING_MODE (LONG_RELATIVE),
; 2074 0 MEN$Test_Menu : ADDRESSING_MODE (LONG_RELATIVE),
; 2075 0 MEN$Get_TstCla_Name : ADDRESSING_MODE (LONG_RELATIVE),
; 2076 0 MEN$FndDDB_Tcl_SDN : ADDRESSING_MODE (LONG_RELATIVE),
; 2077 0 MEN$FndDDB_Tcl : ADDRESSING_MODE (LONG_RELATIVE),
; 2078 0 MEN$Print_DevTstPrep : ADDRESSING_MODE (LONG_RELATIVE),
; 2079 0 MEN$Print_System_Hdwr : ADDRESSING_MODE (LONG_RELATIVE),
; 2080 0 MEN$FTMTbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
; 2081 0 MEN$PrepTbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
; 2082 0
; 2083 0 !+
; 2084 0 ! from the MENTSTQ Module
; 2085 0 !-
; 2086 0
; 2087 0 MEN$BldTstQ_FncTst_All : ADDRESSING_MODE (LONG_RELATIVE),
; 2088 0 MEN$BldTstQ_FncTst_Dev : ADDRESSING_MODE (LONG_RELATIVE),
; 2089 0
; 2090 0 !+
; 2091 0 ! from the MENTST Module
; 2092 0 !-
; 2093 0
; 2094 0 MEN$FncTst_CmplErr_Status : ADDRESSING_MODE (LONG_RELATIVE),
; 2095 0 MEN$FncTst_TestStrt_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 2096 0 MEN$Print_Failed_Hdwr : ADDRESSING_MODE (LONG_RELATIVE),
; 2097 0 MEN$Print_Runtime_Total : ADDRESSING_MODE (LONG_RELATIVE),
; 2098 0 MEN$CVI_Time_ASC_D : ADDRESSING_MODE (LONG_RELATIVE),
; 2099 0 MEN$Scan_Numeric_ASC_D : ADDRESSING_MODE (LONG_RELATIVE),
; 2100 0 MEN$Preparation_Err_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 2101 0 MEN$Scratch_Media_Msg : ADDRESSING_MODE (LONG_RELATIVE),
; 2102 0 MEN$Menu_Summary : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 2103 0
; 2104 0 !+
; 2105 0 ! from the MENCNTLC Module
; 2106 0 !
```

```
: 2107 0
: 2108 0 MEN$CntIC_Tbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
: 2109 0 MEN$CntICInit_Tbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
: 2110 0 MEN$CntIC_Menu : ADDRESSING_MODE (LONG_RELATIVE);
```

```

; 2111 0 %SBTTL 'Doubly-linked list queue header field definitions'
; 2112 0
; 2113 0 LITERAL
; 2114 0     MEN$K_Queue_Link_Size = 8;
; 2115 0
; 2116 0 FIELD
; 2117 0     $MEN_Queue_Link_FLD =
; 2118 0     SET
; 2119 0     Queue$L_Flink = [0,0,32,0],
; 2120 0     Queue$L_Blink = [4,0,32,0]
; 2121 0     TES;
; 2122 0
; 2123 0 MACRO
; M 2124 0     $MEN_Queue_Link_ATTR =
; M 2125 0     BLOCK [MEN$K_Queue_Link_Size,BYTE]
; M 2126 0     FIELD ($MEN_Queue_Link_FLD)
; 2127 0     x;
; 2128 0
; 2129 0 EXTERNAL
; 2130 0     MEN$GA_DDB_Head : $MEN_Queue_Link_ATTR
; 2131 0     ADDRESSING_MODE (LONG_RELATIVE);
; 2132 0
; 2133 0

```

```

; 2134 0 xSBTTL 'Support Database Identification Block field definitions'
; 2135 0 LITERAL
; 2136 0     MEN$K_DBaseID_Size = 24;
; 2137 0
; 2138 0 FIELD
; 2139 0     $MEN_DBaseID_FLD =
; 2140 0     SET
; 2141 0     DBaseID$L_Size = [0,0,32,0], ! Size in longwords of support
; 2142 0     ! Data Base ID Block
; 2143 0     DBaseID$T_Version = [4,0,0,0]
; 2144 0     ! Version # ASCII in the form
; 2145 0     ! 'Version = #'
; 2146 0     TES;
; 2147 0
; 2148 0 MACRO
; M 2149 0     $MEN_DBaseID_ATTR =
; M 2150 0     BLOCK [MEN$K_DBaseID_Size,BYTE]
; M 2151 0     FIELD ($MEN_DBaseID_FLD)
; 2152 0     x;
; 2153 0

```

```
: 2154 0 xSBTTL 'Support Block field definitions'
: 2155 0 LITERAL
: 2156 0     MEN$K_SupBlk_Size = 23;
: 2157 0
: 2158 0 FIELD
: 2159 0     $MEN_SupBlk_FLD =
: 2160 0 SET
: 2161 0     SupBlk$L_SupBlk_Size = [0,0,32,0], ! Size in longwords of support block
: 2162 0     SupBlk$T_Device_Name = [4,0,0,0], ! Hardware Device Name ASCIC
: 2163 0     SupBlk$B_Test_Category = [16,0,8,0], ! Device Test Category Code
: 2164 0         ! defined by MEN$K_TstCtg_xxx
: 2165 0     SupBlk$B_Test_Class = [17,0,8,0], ! Device Test Class code ,
: 2166 0         ! defined by MEN$K_TstCla_x
: 2167 0     SupBlk$B_TstCnfg_No = [18,0,8,0], ! Number of Test Configuraion
: 2168 0         ! blocks in this Support Block
: 2169 0     SupBlk$W_Status = [19,0,16,0], ! Support Block Status Word.
: 2170 0     SupBlk$V_Status_Invalid = [19,0,1,0], ! Support Block Invalid bit.
: 2171 0         ! Indicates that the support
: 2172 0         ! block is invalid.
: 2173 0         ! 0 or False = Valid.
: 2174 0         ! 1 or True = Invalid
: 2175 0     SupBlk$W_Level = [21,0,16,0], ! Support Block Diag Level
: 2176 0     SupBlk$B_StrtFrst_CnfgBlk = [23,0,0,0] ! Start of first Test Configuration block
: 2177 0 TES;
: 2178 0
: 2179 0 MACRO
: M 2180 0     $MEN_SupBlk_ATTR =
: M 2181 0     BLOCK [MEN$K_SupBlk_Size,BYTE]
: M 2182 0     FIELD ($MEN_SupBlk_FLD)
: 2183 0     x;
: 2184 0
```



```

; 2185 0 %SBTTL 'Test Configuration Block field definitions'
; 2186 0
; 2187 0
; 2188 0 LITERAL
; 2189 0     MEN$K_TstCnfg_Size = 4;
; 2190 0
; 2191 0 FIELD
; 2192 0     $MEN_TstCnfg_FLD =
; 2193 0     SET
; 2194 0     TstCnfg$B_Prep = [0,0,8,0], ! A device test preparation code
; 2195 0     ! representing text describing
; 2196 0     ! the hardware device test
; 2197 0     ! preparation required
; 2198 0     TstCnfg$B_Diagblk_No = [1,0,8,0], ! Number of concatenated
; 2199 0     ! Diagnostic Blocks
; 2200 0     ! in this Test Configuration block
; 2201 0     TstCnfg$W_Status = [2,0,16,0], ! Test Configuration Status word
; 2202 0     TstCnfg$V_Status_Scratch =
; 2203 0     [2,0,1,0], ! Scratch media required bit.
; 2204 0     ! Indicates that media required
; 2205 0     ! for testing hardware must
; 2206 0     ! be scratch ( must not
; 2207 0     ! contain useable data).
; 2208 0     ! 0 or False = Non-Destructive
; 2209 0     ! 1 or True = Destructive
; 2210 0     TstCnfg$B_StrtFrst_DiagBlk =
; 2211 0     [4,0,0,0] ! Start of first Diagnostic Block
; 2212 0     TES;
; 2213 0
; 2214 0 MACRO
; M 2215 0     $MEN_TstCnfg_ATTR =
; M 2216 0     BLOCK [MEN$K_TstCnfg_Size,BYTE]
; M 2217 0     FIELD ($MEN_TstCnfg_FLD)
; 2218 0     x;

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; 2236 0 xSBTTL 'ASCII Support Database'
; 2237 0
; 2238 0 LITERAL
; 2239 0 MEN$GK_FuncSup_DatBase = 16; ! 16 Bytes long
; 2240 0
; 2241 0 FIELD
; 2242 0 $MEN_FuncSup_DatBase_Fld =
; 2243 0 SET
; 2244 0 MEN$V_FuncSup_DatBase_Size = [0, 0, 32, 0],
; 2245 0 ! Size in bytes of database
; 2246 0 MEN$V_FuncSup_DatBase_Ptr = [4, 0, 32, 0],
; 2247 0 ! Address pointer to first
; 2248 0 ! device support block
; 2249 0 MEN$V_FuncSup_DatBase_Total_Siz = [8, 0, 32, 0],
; 2250 0 ! Size in bytes of allocated
; 2251 0 ! memory
; 2252 0 MEN$V_FuncSup_DatBase_Start = [12, 0, 32, 0]
; 2253 0 ! Address pointer to start of
; 2254 0 ! database.
; 2255 0 TES;
; 2256 0
; 2257 0 MACRO
; M 2258 0 $MEN_FuncSup_DatBase_ATTR =
; M 2259 0 BLOCK [MEN$GK_FuncSup_DatBase, BYTE]
; M 2260 0 FIELD ($MEN_FuncSup_DatBase_Fld)
; 2261 0 x;
; 2262 0
; 2263 0 EXTERNAL
; 2264 0 MEN$GA_FuncSup_DatBase : $MEN_FuncSup_DatBase_ATTR
; 2265 0 ADDRESSING_MODE (LONG_RELATIVE);
  
```

```

: 2266 0 xSBTTL 'Functional Test Main Menu Definitions'
: 2267 0
: 2268 0 !+
: 2269 0 ! FUNCTIONAL TEST MAIN MENU Table entry field definitions
: 2270 0 !-
: 2271 0
: 2272 0 LITERAL
: 2273 0     MEN$GK_FTMTbl_Entries = 5,
: 2274 0     MEN$K_FTMTBL_Entry_Size = 6;
: 2275 0
: 2276 0 FIELD
: 2277 0     $MEN_FTMTbl_Entry_FLD =
: 2278 0     SET
: 2279 0     FTMTbl$B_Entry_Alpha = [0,0,8,0], ! Menu selection choice
: 2280 0     FTMTbl$B_Entry_FTMSel = [1,0,8,0], ! Functional Test Main
: 2281 0     ! Menu selection code
: 2282 0     FTMTbl$L_Entry_Text = [2,0,32,0] ! pointer to Menu selection text ASCII
: 2283 0     TES;
: 2284 0
: 2285 0 MACRO
: M 2286 0     $MEN_FTMTbl_Entry_ATTR =
: M 2287 0     BLOCK [MEN$K_FTMTbl_Entry_Size,BYTE]
: M 2288 0     FIELD ($MEN_FTMTbl_Entry_FLD)
: 2289 0     x;
: 2290 0
: 2291 0 MACRO
: M 2292 0     $MEN_FTMTbl_ATTR =
: M 2293 0     BLOCKVECTOR [MEN$GK_FTMTbl_Entries, MEN$K_FTMTbl_Entry_Size, BYTE]
: M 2294 0     FIELD ($MEN_FTMTbl_Entry_FLD)
: 2295 0     x;
: 2296 0
: 2297 0 EXTERNAL
: 2298 0     MEN$GA_FTMTbl : $MEN_FTMTbl_ATTR
: 2299 0     ADDRESSING_MODE (LONG_RELATIVE);
: 2300 0
: 2301 0 !+
: 2302 0 ! TEST MENU Table entry field definitions
: 2303 0 !-
: 2304 0
: 2305 0 LITERAL
: 2306 0     MEN$GK_TMTbl_Entries = 11,
: 2307 0     MEN$K_TMTbl_Entry_Size = 2;
: 2308 0
: 2309 0 FIELD
: 2310 0     $MEN_TMTbl_Entry_FLD =
: 2311 0     SET
: 2312 0     TMTbl$B_Entry_Alpha = [0,0,8,0], ! Menu selection choice
: 2313 0     TMTbl$B_Entry_TstCla = [1,0,8,0] ! Test Class code
: 2314 0     TES;
: 2315 0
: 2316 0 MACRO
: M 2317 0     $MEN_TMTbl_Entry_ATTR =
: M 2318 0     BLOCK [MEN$K_TMTbl_Entry_Size,BYTE]
: M 2319 0     FIELD ($MEN_TMTbl_Entry_FLD)
: 2320 0     x;

```

```
; 2321 0
; 2322 0 MACRO
; M 2323 0 $MEN_TMTbl_ATTR =
; M 2324 0 BLOCKVECTOR (MEN$GK_TMTbl_Entries, MEN$K_TMTbl_Entry_Size, BYTE)
; M 2325 0 FIELD ($MEN_TMTbl_Entry_FLD)
; 2326 0 x;
; 2327 0
; 2328 0 EXTERNAL
; 2329 0 MEN$GA_TMTbl : $MEN_TMTbl_ATTR
; 2330 0 ADDRESSING_MODE (LONG_RELATIVE);
```

```

; 2331 0 xSBTTL 'Device Preparation Table Definitions'
; 2332 0
; 2333 0 !+
; 2334 0 ! DEVICE TEST PREPARATION Table entry field definitions
; 2335 0 !-
; 2336 0
; 2337 0 LITERAL
; 2338 0     MEN$GK_PrepTbl_Entries = 8,
; 2339 0     MEN$K_PrepTbl_Entry_Size = 5;
; 2340 0
; 2341 0 FIELD
; 2342 0     $MEN_PrepTbl_Entry_FLD =
; 2343 0     SET
; 2344 0     PrepTbl$B_Entry_Code = [0,0,8,0], ! Preparation code
; 2345 0     PrepTbl$L_Entry_Text = [1,0,32,0] ! Preparation text ASCII pointer
; 2346 0     TES;
; 2347 0
; 2348 0 MACRO
; M 2349 0     $MEN_PrepTbl_Entry_ATTR =
; M 2350 0     BLOCK [MEN$K_PrepTbl_Entry_Size,BYTE]
; M 2351 0     FIELD ($MEN_PrepTbl_Entry_FLD)
; 2352 0     x;
; 2353 0
; 2354 0 MACRO
; M 2355 0     $MEN_PrepTbl_ATTR =
; M 2356 0     BLOCKVECTOR [MEN$GK_PrepTbl_Entries, MEN$K_PrepTbl_Entry_Size, BYTE]
; M 2357 0     FIELD ($MEN_PrepTbl_Entry_FLD)
; 2358 0     x;
; 2359 0
; 2360 0 EXTERNAL
; 2361 0     MEN$GA_PrepTbl : $MEN_PrepTbl_ATTR
; 2362 0     ADDRESSING_MODE (LONG_RELATIVE);
  
```

```
: 2363 0 *SBTTL 'Control-C Menu Table Definitions'
: 2364 0
: 2365 0 !
: 2366 0 !+
: 2367 0 ! CONTROL-C MENU Table entry field definitions
: 2368 0 !-
: 2369 0
: 2370 0 LITERAL
: 2371 0     MEN$K_CntICTbl_Entry_Size = 6;
: 2372 0
: 2373 0 FIELD
: 2374 0     $MEN_CntICTbl_Entry_FLD =
: 2375 0     SET
: 2376 0     CntICTbl$B_Entry_Alpha = [0,0,8,0], ! Menu selection choice
: 2377 0     CntICTbl$B_Entry_CntICSel = [1,0,8,0], ! Control-C Test Menu selection code
: 2378 0     CntICTbl$L_Entry_Text = [2,0,32,0] ! pointer to Menu selection text ASCII
: 2379 0     TES;
: 2380 0
: 2381 0 MACRO
: M 2382 0     $MEN_CntICTbl_Entry_ATTR =
: M 2383 0     BLOCK (MEN$K_CntICTbl_Entry_Size,BYTE)
: M 2384 0     FIELD ($MEN_CntICTbl_Entry_FLD)
: 2385 0     x;
```

```

; 2386 0 xSBTTL 'Definitions for accessing the Test Queue Table'
; 2387 0
; 2388 0 LITERAL
; 2389 0 MEN$K_Test_Queue_Ptr_Blk_Size = 12;
; 2390 0 ! 12 Bytes long
; 2391 0
; 2392 0 FIELD
; 2393 0 MEN$V_Test_Queue_Ptr_Blk_Flds =
; 2394 0 SET
; 2395 0 MEN$V_TQ_Table_Numb_Entries = [0, 0, 32, 0],
; 2396 0 MEN$V_TQ_Table_Ptr = [4, 0, 32, 0],
; 2397 0 MEN$V_TQ_Table_Size = [8, 0, 32, 0]
; 2398 0 TES;
; 2399 0
; 2400 0 MACRO
; M 2401 0 $MEN_Test_Queue_ATTR =
; M 2402 0 BLOCK [MEN$K_Test_Queue_Ptr_Blk_Size, BYTE]
; M 2403 0 FIELD (MEN$V_Test_Queue_Ptr_Blk_Flds)
; 2404 0 x;
; 2405 0
; 2406 0 EXTERNAL
; 2407 0 MEN$GA_Test_Queue : $MEN_Test_Queue_ATTR
; 2408 0 ADDRESSING_MODE (LONG_RELATIVE);
  
```



```

; 2409 0 xSBTTL 'Definitions for Console Terminal Characteristics'
; 2410 0
; 2411 0 LITERAL
; 2412 0 CRD$K_Termchar_Size = 8; ! 8 bytes long
; 2413 0
; 2414 0 FIELD
; 2415 0 $CRD_Termchar_FLD =
; 2416 0   SET
; 2417 0   Termchar$B_Class = [0,0,8,0], !
; 2418 0   Termchar$B_Type = [1,0,8,0], !
; 2419 0   Termchar$W_Page_Width = [2,0,16,0], !
; 2420 0   Termchar$3W_Term_Char = [4,0,24,0], !
; 2421 0   Termchar$B_Page_Length = [7,0,8,0] !
; 2422 0   TES;
; 2423 0
; 2424 0 MACRO
; M 2425 0 $CRD_Termchar_ATTR =
; M 2426 0   BLOCK [CRD$K_Termchar_Size, BYTE]
; M 2427 0   FIELD ($CRD_Termchar_FLD)
; 2428 0 x;

```

; COMMAND QUALIFIERS

; BLISS CRD.R32/LIBRARY

```

; Run Time: 00:12.1
; Elapsed Time: 00:20.7
; Lines/CPU Min: 12079
; Lexemes/CPU-Min: 45338
; Memory Used: 164 pages
; Library Precompilation Complete

```

```
; 0001 0 *TITLE '*** CRDACT1 Module'
; 0002 0 MODULE CRDACT1 ( ! Error handling action routines
; 0003 0 IDENT = '01-22'
; 0004 0 ) =
; 0005 0 !*
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !-
```

```
: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : This module contains the routines necessary to perform actions based upon
: 0032 0 : a DS typecode and a current 'state'. A state table is used to determine what
: 0033 0 : action routine should be undertaken.
: 0034 0 :
: 0035 0 : Author:
: 0036 0 :
: 0037 0 : Jack Stansbury
: 0038 0 :
: 0039 0 : Creation Date:
: 0040 0 :
: 0041 0 : 23-April-1982
: 0042 0 :
: 0043 0 : Version:
: 0044 0 :
: 0045 0 : 6.9
```

```

0046 0 Modified By:
0047 0
0048 0 01 Jack Stansbury, Version 1.0, June 21, 1982 (Summer!!!)
0049 0 Changed CRD$F_DDB to CRD$V_DDB. Also added functionality of the
0050 0 CRD$V_DDB_Status_End_Testing bit. This bit indicates that everything
0051 0 has been done on that device.
0052 0
0053 0 02 Jack Stansbury, Version 1.0, June 22, 1982
0054 0 Took out the Error_Count variables. These are not needed for this version.
0055 0 Also added some functionality to the Internal_Error routine to allow it
0056 0 to be used as a general purpose internal error routine (i.e., callable from
0057 0 anywhere in CRD-AutoTest).
0058 0
0059 0 03 Jack Stansbury, Version 1.0, July 2, 1982
0060 0 Made changes to the Internal_Error routine so that it will not overwrite
0061 0 the dispatch vectors before the vectors are no longer needed (i.e., CRD$Stop
0062 0 needs at least the CRD$Print address in the vectors to print things). Use
0063 0 a new global vector to store the things in that will later be transferred
0064 0 to the dispatch area by CRD$Stop.
0065 0
0066 0 04 Jack Stansbury, Version 1.0, July 7, 1982
0067 0 Added code in the CRD$Preparation_Error routine that will do special case
0068 0 code for printing the preparation error message. This was necessary because
0069 0 of the way the message was printed when the user_error text was one character
0070 0 less in length than the prep_error text. This caused an asterisk to be left
0071 0 out. I'm not sure if this will fix the problem, but it may help.
0072 0
0073 0 05 Jack Stansbury, Version 1.0, July 9, 1982
0074 0 Decrement the positive CRD version number when there is an internal error.
0075 0 This is contrary to the documentation in the DSV$Exit routine because the
0076 0 code in the routine is wrong (i.e., it does an INCL when it should have done
0077 0 a DECL). This will have to be changed in the DSV$Exit routine, and in the
0078 0 CRD$Internal_Error routine later - after CRD-AutoTest goes out.
0079 0
0080 0 06 Jack Stansbury, Version 1.0, July 9, 1982
0081 0 Make changes to the CRD$Diagnostic_Error routine. It was causing a problem because
0082 0 I had made a change in the state_table (making a Script Prompt typecode activate
0083 0 the Diagnostic_Error routine). The SELECTONE statement in the Internal_Error routine
0084 0 did not know this new typecode, and it reported an internal error. So, I took out
0085 0 the SELECTONE statement because it is really not needed. It was in there to keep
0086 0 track of the number of different types of errors that occurred. I don't do that
0087 0 anymore.
0088 0
0089 0 07 Jack Stansbury, Version 1.0, July 9, 1982
0090 0 Make some changes in the Start_Error and Load_Error routines that will make the ending
0091 0 message come out right. When one start error occurs, the ending message should be the
0092 0 check device preparation message. To get this to come out, I set the Status_Essential_Dev
0093 0 bit equal to True. That way, the Exit_CRD routine will think that an essential device
0094 0 wasn't tested, and print the right message.
0095 0
0096 0 08 Jack Stansbury, Version 1.0, July 9, 1982
0097 0 Changed the cose in the Preparation_Error routine to handle the special case of the
0098 0 !#* FAO construct when the parameter for the # is 0. The DS's FAO routine do not
0099 0 handle this correctly. They eat a character out of the FAO control string. So, I have
0100 0 to check for this when I print the preparation error messaes, and compensate for it.

```

```

; 0101 0 | 09 Jack Stansbury, Version 1.1, July 16, 1982
; 0102 0 |   Added functionality for CRD Menu Test.
; 0103 0 |
; 0104 0 | 10 Jack Stansbury, Version 1.1, July 23, 1982
; 0105 0 |   Fix what is documented in [05] above.
; 0106 0 |
; 0107 0 | 11 Jack Stansbury, Version 6.9, July 25, 1982
; 0108 0 |   Changed the Preparation error messages back to what they should have been (I fixed the
; 0109 0 |   FAO routines).
; 0110 0 |
; 0111 0 | 12 Jack Stansbury, Version 1.1, July 25, 1982
; 0112 0 |   Split the CRDACTION module into two different modules: CRDACT1 and CRDACT2. They both
; 0113 0 |   retain the modification history of CRDACTION, but these modification historys become
; 0114 0 |   particular to the module after this point. This module contains the action routines
; 0115 0 |   pertaining to error routines and the global variable declarations.
; 0116 0 |
; 0117 0 | 13 Jack Stansbury, Version 1.1, August 20, 1982
; 0118 0 |   Changed the DDB status fields.
; 0119 0 |
; 0120 0 | 14 Jack Stansbury Version 1.1 August 29, 1982
; 0121 0 |   Changed the Device_Okay field to Diag_Passed. Also aborted the diagnostic on a
; 0122 0 |   Preparation_Error.
; 0123 0 |
; 0124 0 | 15 Jack Stansbury Version 1.1 August 31, 1982
; 0125 0 |   Added the Complete status bit to the DDB status word.
; 0126 0 |
; 0127 0 | 16 Jack Stansbury Version 1.1 August 31, 1982
; 0128 0 |   If this is Menu Test running, and we are executing the Diagnostic_Error routine,
; 0129 0 |   then we must print 'PASS' or 'FAILED' since the HS$Advance_Diagnostic routine won't
; 0130 0 |   be executing when a diagnostic finds a diagnostic_error.
; 0131 0 |
; 0132 0 | 17 Jack Stansbury Version 1.1 September 1, 1982
; 0133 0 |   Took out the above change, so that Menu Test can have its own Diagnostic_Error
; 0134 0 |   code. There were too many differences to share the code. Also, took out the
; 0135 0 |   Error_Count things again! They are not needed for Menu Test either!
; 0136 0 |
; 0137 0 | 18 Jack Stansbury Version 1.1 September 22, 1982
; 0138 0 |   Changed the definitions of the status bits in the DDBs (again). Also made changes
; 0139 0 |   to the CRD$Stop reasons.
; 0140 0 |
; 0141 0 | 18 Jack Stansbury Version 1.1 September 30, 1982
; 0142 0 |   Changed some things around for the new state and action routine numbers. Took out CRD$Abort_CRD -
; 0143 0 |   put its functions into CRD$AutoSizer_Error.
; 0144 0 |
; 0145 0 | 19 Jack Stansbury, Version 1.1, October 1, 1982
; 0146 0 |   Put a $DS_Abort into the AutoSizer_Error routine.
; 0147 0 |
; 0148 0 | 20 Jack Stansbury, Version 1.1, October 4, 1982
; 0149 0 |   ???
; 0150 0 |
; 0151 0 | 21 Jack Stansbury, Version 1.1, October 8, 1982
; 0152 0 |   Changed the Exit_CRD routine around again! Hopefully, the last time.
; 0153 0 |
; 0154 0 | 22 John Ciukaj Version 1.2 15-April-1983
; 0155 0 |   - Changed 'AUTO TEST INCOMPLETE' NO ERRORS' message
  
```


ZZ-ENSAB-2.0 Libraries
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
01-22 Libraries 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (5)

M 7
19-Sep-1985

Fiche 2 Frame M7
Page 6

Sequence 296

```
: 0166 0 xSBTTL 'Libraries'
: 0167 1 BEGIN      ! Begin the CRDACT1 module
: 0168 1
: 0169 1 LIBRARY
: 0170 1 '$CRD';
: 0171 1
: 0172 1 LIBRARY
: 0173 1 '$DS';
: 0174 1
: 0175 1 LIBRARY
: 0176 1 '$Diag';
: 0177 1
: 0178 1 LIBRARY
: 0179 1 'Sys$Library:Lib';
```

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```
; 0180 1 xSBTTL 'Table of Contents'
; 0181 1
; 0182 1 FORWARD ROUTINE      ! In alphabetical order
; 0183 1 CRD$AutoSizer_Error  : ADDRESSING_MODE (LONG_RELATIVE),
; 0184 1      ! The AutoSizer had a problem.
; 0185 1
; 0186 1 CRD$Diagnostic_Error  : ADDRESSING_MODE (LONG_RELATIVE),
; 0187 1      ! A diagnostic reported an ERRxxxx.
; 0188 1
; 0189 1 CRD$Exit_CRD         : ADDRESSING_MODE (LONG_RELATIVE),
; 0190 1      ! Exit the CRD process
; 0191 1
; 0192 1 CRD$Internal_Error   : ADDRESSING_MODE (LONG_RELATIVE),
; 0193 1      ! An internal error (i.e., ERRSUP or CRD) occurred.
; 0194 1
; 0195 1 CRD$Load_Error       : ADDRESSING_MODE (LONG_RELATIVE),
; 0196 1      ! An error occurred while loading a diagnostic
; 0197 1
; 0198 1 CRD$Preparation_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 0199 1      ! An ERRPREP occurred while running a diagnostic.
; 0200 1
; 0201 1 CRD$Print_DDB        : ADDRESSING_MODE (LONG_RELATIVE),
; 0202 1      ! Print contents of a DDB
; 0203 1
; 0204 1 CRD$Start_Error      : ADDRESSING_MODE (LONG_RELATIVE);
; 0205 1      ! An error occurred starting a diagnostic
```


ZZ-ENSAB-2.0 Included Macros and Literals B 8
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame B8 Sequence 298
01-22 Included Macros and Literals 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 Page 8 (7)

; 0206 1 xSBTTL 'Included Macros and Literals'
; 0207 1
; 0208 1 \$CRD_Literals; ! Define some literals for CRD

```
; 0209 1 xSBTTL 'Psect Definitions'
; 0210 1
; 0211 1 PSECT
; 0212 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0213 1
; 0214 1 PSECT
; 0215 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0216 1
; 0217 1 PSECT
; 0218 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0219 1
; 0220 1 PSECT
; 0221 1     GLOBAL  = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Module-Global Static Storage D 8
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 Fiche 2 Frame D8 Sequence 300
01-22 Module-Global Static Storage 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 Page 10 (9)

: 0222 1 xSBTTL 'Module-Global Static Storage'
: 0223 1
: 0224 1 ModNam ('CRDACT1'); ! Module name for ErrSup macro

```

: 0225 1 xSBTTL 'CRD$AutoSizer_Error'
: 0226 1
: 0227 1 GLOBAL ROUTINE CRD$AutoSizer_Error =
: 0228 1
: 0229 1 !++
: 0230 1 ! Functional Description:
: 0231 1 !
: 0232 1 ! An error was found in the AutoSizer (EVSBA). Something went wrong with loading it,
: 0233 1 ! starting it, or in the execution of it. Since we cannot go on with CRD-AutoTest because
: 0234 1 ! none of the devices are attached, we must abort CRD here. So, print a message saying that
: 0235 1 ! CRD-AutoTest is incomplete and exit.
: 0236 1 !
: 0237 1 ! Formal Parameters:
: 0238 1 !
: 0239 1 ! None
: 0240 1 !
: 0241 1 ! Side Effects:
: 0242 1 !
: 0243 1 ! None
: 0244 1 !
: 0245 1 ! Completion Codes:
: 0246 1 !
: 0247 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0248 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0249 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0250 1 ! --

```

```

; 0251 2 BEGIN      ! Routine CRD$AutoSizer_Error
; 0252 2 !
; 0253 2 ! NOTE: This should be fixed so that when an error is detected during AutoSizer processing, this routine [19]
; 0254 2 ! is called. This routine should do the $CRD_Print, and then do a $DS_Abort. The state table should have [19]
; 0255 2 ! each error condition under the four AutoSizer states be State_AutoSizer_Error/AutoSizer_Error. That way, [19]
; 0256 2 ! this would be called with the typecode = the error typecode, this would abort, causing the next typecode [19]
; 0257 2 ! to be DS_Prompt, which would be the only typecode that the AutoSizer_Error state would have to handle. [19]
; 0258 2 ! At AutoSizer_Error, DS_Prompt, the state table entry should be State_Start/AutoSizer_Abort. The [19]
; 0259 2 ! AutoSizer_Abort action routine (new) would call CRD$Stop with the stop reason used below). [19]
; 0260 2 ! This way, we could abort the AutoSizer and have it clean up it's mess. [19]
; 0261 2 !-
; 0262 2
; 0263 2 $CRD_Print (CRD$GT_AutoSizer_Error);
; 0264 2 ! Print a message informing the user that something is wrong with the
; 0265 2 ! AutoSizer.
; 0266 2
; 0267 2 CRD$Stop (AUTO$K_Exit_AutoSizer_Error);          ![[19]]
; 0268 2 ! Exit CRD AutoTest          ![[19]]
; 0269 2
; 0270 3 RETURN (CRD$K_Success) ! Do this for BLISS's sake - the above will not return to here ![[19]]
; 0271 1 END;      ! Routine CRD$AutoSizer_Error

```

.TITLE CRDACT1 *** CRDACT1 Module
 .IDENT \01-22\

.PSECT DATA,NOWRT,NOEXE, SHR,2

31 54 43 41 44 52 43 07 00000 P.AAA: .ASCII <7>\CRDACT1\ ;

\$MODULE= P.AAA
 .EXTRN CRD\$AUTOSIZER_ERROR
 .EXTRN CRD\$DIAGNOSTIC_ERROR
 .EXTRN CRD\$EXIT_CRD, CRD\$INTERNAL_ERROR
 .EXTRN CRD\$LOAD_ERROR, CRD\$PREPARATION_ERROR
 .EXTRN CRD\$PRINT_DDB, CRD\$START_ERROR
 .EXTRN CRD\$GT_AUTOSIZER_ERROR
 .EXTRN CRD\$PRINT, CRD\$STOP

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 .ENTRY CRD$AUTOSIZER_ERROR, Save nothing ; 0227
00000000G EF 9F 00002 PUSHAB CRD$GT_AUTOSIZER_ERROR ; 0263
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, @CRD$PRINT ;
02 DD 00013 PUSHL #2 ; 0267
00000000G EF 01 FB 00015 CALLS #1, CRD$STOP ;
50 01 D0 0001C MOVL #1, R0 ; 0270
04 0001F RET ; 0271

```

; Routine Size: 32 bytes, Routine Base: CODE + 0000

```

: 0272 1 xSBTTL 'CRD$Diagnostic_Error'
: 0273 1
: 0274 1 GLOBAL ROUTINE CRD$Diagnostic_Error (TypeCode, Error_Message_Length, Error_Message_Address) =
: 0275 1
: 0276 1 !**
: 0277 1 ! Functional Description:
: 0278 1
: 0279 1 ! A diagnostic ended in error (i.e., it executed a $DS_ERRxxxx macro).      ![[02]
: 0280 1 ! Abort the currently running diagnostic and advance to the next diagnostic.    ![[02]
: 0281 1
: 0282 1 ! Formal Parameters:
: 0283 1
: 0284 1 ! TypeCode      : The typecode of the ERRxxx.
: 0285 1 ! Error_Message_Length : The length of the error message text.
: 0286 1 ! Error_Message_Address : The address of the error message text.
: 0287 1
: 0288 1 ! Side Effects:
: 0289 1
: 0290 1 ! Aborts the currently running diagnostic and starts the next one.
: 0291 1
: 0292 1 ! Completion Codes:
: 0293 1
: 0294 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0295 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0296 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0297 1 ! --

```

```

: 0298 2 BEGIN      ! Routine CRD$Diagnostic_Error
: 0299 2 MAP
: 0300 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0301 2
: 0302 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Diagnostic_Error> = True;    ![[19]
: 0303 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad> = True;    ![[18]
: 0304 2       ! Set flag to indicate the device is bad    ![[18]
: 0305 2
: 0306 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;    ![[18]
: 0307 2       ! Set flag to indicate that the diagnostic did not complete testing ![[18]
: 0308 2
: 0309 2   $CRD_Print (CRD$GT_Fail); ! This device failed testing    ![[19]
: 0310 2
: 0311 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;    ![[19]
: 0312 2
: 0313 2   CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
: 0314 2
: 0315 2   IF (.CRD$GB_CRD_Debug) THEN
: 0316 2     $CRD_Print ($ASCII ('!/CRD$Diagnostic_Error: Aborting the diagnostic.!\'));
: 0317 2
: 0318 2   $DS_Abort (Arg = Program); ! Abort the diagnostic that is running. This will not return to here!
: 0319 2
: 0320 2   RETURN (CRD$K_Success); ! Do this for BLISS
: 0321 2
: 0322 1 END;      ! Routine CRD$Diagnostic_Error

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

74 73 6F 6E 67 61 69 44 24 44 52 43 2F 21 32 00008 P.AAB: .ASCII \2!/CRD$Diagnostic_Error: Aborting the di\ ;
74 72 6F 62 41 20 3A 72 6F 72 72 45 5F 63 69 00017 ;
    69 64 20 65 68 74 20 67 6E 69 00026 ;
2F 21 2E 63 69 74 73 6F 6E 67 61 00030 .ASCII \agnostic.!\\ ;

```

.EXTRN CRD\$GA_CURRENT_DIAGNOSTIC
 .EXTRN CRD\$GT_FAIL, CRD\$GB_CRD_DEBUG
 .EXTRN DS\$ABORT

.PSECT CODE,NOWRT, SHR, PIC,2

```

    0000 00000 .ENTRY CRD$DIAGNOSTIC_ERROR, Save nothing ; 0274
    50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0302
14 A0 11 88 00009 BISB2 #17, 20(R0) ; 0303
14 A0 20 8A 0000D BICB2 #32, 20(R0) ; 0306
    00000000G EF 9F 00011 PUSHAB CRD$GT_FAIL ; 0309
    01 DD 00017 PUSHL #1 ;
    1A DD 00019 PUSHL #26 ;
    00000000G FF 03 FB 0001B CALLS #3, @CRD$PRINT ;
    50 00000000G EF D0 00022 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0311
14 A0 40 8F 88 00029 BISB2 #64, 20(R0) ;
    50 DD 0002E PUSHL R0 ; 0313
    00000000V EF 01 FB 00030 CALLS #1, CRD$PRINT_DDB ;
    11 00000000G EF E9 00037 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0315
    00000000' EF 9F 0003E PUSHAB P.AAB ; 0316

```

ZZ-ENSAB-2.0 CRD\$Diagnostic_Error I 8
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 Fiche 2 Frame 18 Sequence 305
 01-22 CRD\$Diagnostic_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (13) Page 15

```

    01 DD 00044    PUSHL    #1      ;
    1A DD 00046    PUSHL    #26     ;
00000000G FF      03 FB 00048    CALLS    #3, @CRD$PRINT
00000000G 9F      00 FB 0004F 1$: CALLS    #0, @DS$ABORT      ; 0318
    50          01 D0 00056    MOVL     #1, R0      ; 0320
    04 00059      RET              ; 0322
  
```

; Routine Size: 90 bytes, Routine Base: CODE + 0020

ZZ-ENSAB-2.0 CRD\$Exit_CRD
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
01-22 CRD\$Exit_CRD 3-Jan-1985 17:01:58 (DS.CRD.V020)CRDACT1.B32;1 (14)

J 8

19-Sep-1985

Fiche 2 Frame J8

Sequence 306

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```
: 0323 1 *SBTTL 'CRD$Exit_CRD'
: 0324 1
: 0325 1 GLOBAL ROUTINE CRD$Exit_CRD =
: 0326 1
: 0327 1 !*
: 0328 1 ! Functional Description:
: 0329 1 !
: 0330 1 ! Exit the CRD-AutoTest because we are all done executing the diagnostics.
: 0331 1 !
: 0332 1 ! Formal Parameters:
: 0333 1 !
: 0334 1 ! None
: 0335 1 !
: 0336 1 ! Side Effects:
: 0337 1 !
: 0338 1 ! None
: 0339 1 !
: 0340 1 ! Completion Codes:
: 0341 1 !
: 0342 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0343 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0344 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0345 1 ! --
```

```

: 0346 2 BEGIN      ! Routine CRD$Exit_CRD
: 0347 2 MAP
: 0348 2   CRD$GA_First_Diagnostic : REF Device_Data_Block_Structure;
: 0349 2
: 0350 2 REGISTER
: 0351 2   Complete : BYTE INITIAL (True),      ![22]
: 0352 2   Bad_Device : BYTE INITIAL (False),    ![22]
: 0353 2   Incorrect_Prep : BYTE INITIAL (False), ![22]
: 0354 2
: 0355 2   DDB_Ptr : REF Device_Data_Block_Structure;    ![13]
: 0356 2
: 0357 2 DDB_Ptr = .CRD$GA_First_Diagnostic;
: 0358 2   ! Set DDB_Ptr to point to the first DDB
: 0359 2
: 0360 2 DO
: 0361 3 BEGIN
: 0362 3   REGISTER      ![21]
: 0363 3   Prep_Error : BYTE,      ![21]
: 0364 3   Bad : BYTE,      ![22]
: 0365 3   Essential_Device : BYTE,      ![21]
: 0366 3   Finished : BYTE;      ![21]
: 0367 3
: 0368 3   !+
: 0369 3   ! Step through all the DDB's and accumulate the results of the testing.
: 0370 3   !-
: 0371 3
: 0372 3   CRD$Print_DDB (.DDB_Ptr);
: 0373 3
: 0374 3   Finished = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete>; ![21]
: 0375 3   Essential_Device = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device>; ![21]
: 0376 3   Bad = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad>; ![22]
: 0377 3   Prep_Error = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error>; ![21]
: 0378 3
: 0379 3   !+
: 0380 3   ! Determine if testing is Complete      ![22]
: 0381 3   !-
: 0382 3
: 0383 3   Complete = (.Complete AND .Finished) OR
: 0384 3   (.Complete AND (NOT(.Finished)) AND (NOT(.Essential_Device)));    ![22]
: 0385 3
: 0386 3
: 0387 3   !+
: 0388 3   ! Determine if BAD device      ![22]
: 0389 3   !-
: 0390 3
: 0391 3   Bad_Device = .Bad_Device OR .Bad;      ![22]
: 0392 3
: 0393 3   !+
: 0394 3   ! Determine if Incorrect Preparation      ![22]
: 0395 3   !-
: 0396 3
: 0397 3   Incorrect_Prep = .Incorrect_Prep OR      ![22]
: 0398 4   (      ![21]
: 0399 5   Boolean (.Essential_Device)      ![21]
: 0400 4   AND      ![21]

```

ZZ-ENSAB-2.0 CRD\$Exit_CRD L 8
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Exit_CRD 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (15)

Fiche 2 Frame L8
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Sequence 308

```

; 0401 5 Boolean (.Prep_Error)      ![[21]]
; 0402 3 );                        ![[21]]
; 0403 3
; 0404 3 !+
; 0405 3 ! Advance to the next DDB in the queue.
; 0406 3 !-
; 0407 3
; 0408 3 DDB_Ptr = .DDB_Ptr [CRD$K_DDB_FLink];      ![[13]]
; 0409 3 END
; 0410 2 UNTIL (.DDB_Ptr EQL .CRD$GA_First_Diagnostic);
; 0411 2
; 0412 2 IF (.CRD$GB_CRD_Debug) THEN
P 0413 2 $CRD_Print ($ASCII ('Exit_CRD: Complete = !XB!/' ,      ![[22]]
P 0414 2 , Incorrect_Prep = !XB!/' ,      ![[22]]
P 0415 2 , Bad_Device = !XB!/' ),      ![[22]]
; 0416 2 .Complete, .Incorrect_Prep, .Bad_Device);      ![[22]]
; 0417 2
; 0418 2 !+
; 0419 2 ! Check the flags to see if we found anything.      ![[13]]
; 0420 2 !-
; 0421 2
; 0422 2 IF (.Bad_Device) THEN      ![[22]]
; 0423 2
; 0424 2 CRD$Stop (AUTOSK_Exit_Errors_InComplete)      ![[22]]
; 0425 2 ! AUTOTEST INCOMPLETE - XXX BAD - CALL FIELD SERVICE      ![[22]]
; 0426 2
; 0427 2 ELSE IF (.Incorrect_Prep) THEN      ![[22]]
; 0428 2
; 0429 2 CRD$Stop (AUTOSK_Exit_NoErrors_Prep)      ![[21]]
; 0430 2 ! AUTOTEST INCOMPLETE      ![[22]]
; 0431 2 ! CHECK DEVICE PREPARATION - IF OK, THEN CALL FIELD SERVICE      ![[22]]
; 0432 2
; 0433 2 ELSE IF (NOT(.Complete)) THEN      ![[22]]
; 0434 2
; 0435 2 CRD$Stop (AUTOSK_Exit_NoErrors_Incomplete)      ![[21]]
; 0436 2 ! AUTOTEST INCOMPLETE - IF ASSISTANCE NEEDED, CALL FIELD SERVICE      ![[22]]
; 0437 2
; 0438 2 ELSE      ![[21]]
; 0439 2
; 0440 2 CRD$Stop (AUTOSK_Exit_NoErrors_Complete);      ![[21]]
; 0441 2 ! AUTOTEST COMPLETE - NO ERRORS      ![[22]]
; 0442 2
; 0443 2 !+
; 0444 2 ! None of the above calls to CRD$Stop will return here.
; 0445 2 !-
; 0446 2
; 0447 3 RETURN (CRD$K_Success) ! Do this for BLISS's sake
; 0448 1 END; ! Routine CRD$Exit_CRD

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

70	6D	6F	43	20	3A	44	52	43	5F	74	69	78	45	5F	0003B	P.AAC:	.ASCII	_Exit_CRD: Complete	= !XB!/'	\ ;
2F	21	42	58	21	20	3D	20	20	20	20	65	74	65	6C	0004A					

20 70 65 72 50 5F 74 63 65 72 72 6F 63 6E 49 00063 ;
20 20 2F 21 42 58 21 20 3D 20 20 20 20 20 20 00072 ;
21 42 58 21 20 3D 20 65 63 69 76 65 44 5F 64 0008B ;
2F 0009A ;

.ASCII \Incorrect_Prep

= !XB! /

Ba\ ;

.ASCII \d_Device = !XB! / \

;

.EXTRN CRD\$GA_FIRST_DIAGNOSTIC

.PSECT CODE,NOWRT, SHR, PIC,2

07FC 00000 .ENTRY CRD\$EXIT_CRD, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0325

R10

52 01 90 00002 MOVB #1, COMPLETE ; 0346
53 94 00005 CLRB BAD_DEVICE ;
54 94 00007 CLRB INCORRECT_PREP ;
55 00000000G EF D0 00009 MOVL CRD\$GA_FIRST_DIAGNOSTIC, DDB_PTR ; 0357
55 DD 00010 1\$: PUSHL DDB_PTR ; 0372
00000000V EF 01 FB 00012 CALLS #1, CRD\$PRINT_DDB ;
50 14 A5 01 05 EF 00019 EXTZV #5, #1, 20(DDB_PTR), R0 ; 0374
57 50 90 0001F MOVB R0, FINISHED ;
50 14 A5 01 02 EF 00022 EXTZV #2, #1, 20(DDB_PTR), R0 ; 0375
56 50 90 00028 MOVB R0, ESSENTIAL_DEVICE ;
50 14 A5 01 04 EF 0002B EXTZV #4, #1, 20(DDB_PTR), R0 ; 0376
51 50 90 00031 MOVB R0, BAD ;
58 14 A5 01 01 EF 00034 EXTZV #1, #1, 20(DDB_PTR), R8 ; 0377
50 58 90 0003A MOVB R8, PREP_ERROR ;
58 52 9A 0003D MOVZBL COMPLETE, R8 ; 0383
59 57 9A 00040 MOVZBL FINISHED, R9 ;
59 59 D2 00043 MCOML R9, R9 ;
58 59 CA 00046 BICL2 R9, R8 ;
59 52 9A 00049 MOVZBL COMPLETE, R9 ; 0384
57 57 9A 0004C MOVZBL FINISHED, R7 ;
57 59 57 CB 0004F BICL3 R7, R9, R7 ;
5A 56 9A 00053 MOVZBL ESSENTIAL_DEVICE, R10 ;
57 5A CA 00056 BICL2 R10, R7 ;
52 57 58 89 00059 BISB3 R8, R7, COMPLETE ;
53 51 88 0005D BISB2 BAD, BAD_DEVICE ; 0391
51 56 9A 00060 MOVZBL ESSENTIAL_DEVICE, R1 ; 0401
50 50 9A 00063 MOVZBL PREP_ERROR, R0 ;
50 50 D2 00066 MCOML R0, R0 ;
57 50 51 50 CB 00069 BICL3 R0, R1, R0 ;
54 50 01 00 EF 0006D EXTZV #0, #1, R0, R7 ; 0398
55 57 88 00072 BISB2 R7, INCORRECT_PREP ;
55 65 D0 00075 MOVL (DDB_PTR), DDB_PTR ; 0408
00000000G EF 55 D1 00078 CMPL DDB_PTR, CRD\$GA_FIRST_DIAGNOSTIC ; 0410
8F 12 0007F BNEQ 1\$;
1A 00000000G EF E9 00081 BLBC CRD\$GB_CRD_DEBUG, 2\$; 0412
7E 53 9A 00088 MOVZBL BAD_DEVICE, -(SP) ; 0416
7E 54 9A 0008B MOVZBL INCORRECT_PREP, -(SP) ;
7E 52 9A 0008E MOVZBL COMPLETE, -(SP) ;
00000000' EF 9F 00091 PUSHAB P.AAC ;
01 DD 00097 PUSHL #1 ;
1A DD 00099 PUSHL #26 ;
00000000G FF 06 FB 0009B CALLS #6, aCRD\$PRINT ;

```
04      53 E9 000A2 2$: BLBC    BAD_DEVICE, 3$      ; 0422
04 DD 000A5    PUSHL    #4      ; 0424
10 11 000A7    BRB      6$      ;
04      54 E9 000A9 3$: BLBC    INCORRECT_PREP, 4$    ; 0427
07 DD 000AC    PUSHL    #7      ; 0429
09 11 000AE    BRB      6$      ;
04      52 E8 000B0 4$: BLBS    COMPLETE, 5$          ; 0433
06 DD 000B3    PUSHL    #6      ; 0435
02 11 000B5    BRB      6$      ;
05 DD 000B7 5$:    PUSHL    #5      ; 0440
00000000G EF    01 FB 000B9 6$: CALLS #1, CRD$STOP    ;
50      01 D0 000C0    MOVL    #1, R0      ; 0447
04 000C3    RET      ; 0448
```

; Routine Size: 196 bytes, Routine Base: CODE + 007A

Z
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```
: 0449 1 xSBTTL 'CRD$Internal_Error'
: 0450 1
: 0451 1 GLOBAL ROUTINE CRD$Internal_Error (TypeCode, Length, Address) =
: 0452 1
: 0453 1 !**
: 0454 1 ! Functional Description:
: 0455 1 !
: 0456 1 ! An internal error (i.e., a software bug) was detected in CRD. Exit CRD.
: 0457 1 !
: 0458 1 ! Formal Parameters:
: 0459 1 !
: 0460 1 ! TypeCode: The typecode that was in effect when the internal error occurred.
: 0461 1 ! Address: The address of what the Resident-DS was trying to print.
: 0462 1 ! Length: The length of . . . .
: 0463 1 !
: 0464 1 ! Side Effects:
: 0465 1 !
: 0466 1 ! None
: 0467 1 !
: 0468 1 ! Completion Codes:
: 0469 1 !
: 0470 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0471 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0472 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0473 1 ! --
```

```

: 0474 2 BEGIN      ! Routine CRD$Internal_Error
: 0475 2 MAP
: 0476 2   CRD$AL_CRD_Dispatch_Vectors : VECTOR [4, BYTE];
: 0477 2   ! Reference the dispatch vector information as an array of bytes
: 0478 2   ! Do not worry about these being SIGNED bytes because only the
: 0479 2   ! positive version number is referenced.
: 0480 2
: 0481 2 !+
: 0482 2 ! Store pertinent information about the state of CRD, and call the CRD$Stop routine to stop CRD!
: 0483 2 !-
: 0484 2
: 0485 2 CRD$AL_CRD_Dispatch_Vectors [1] = .CRD$AL_CRD_Dispatch_Vectors [1] + 1;      ![10]
: 0486 2   ! Increment the positive version number as a cue to the
: 0487 2   ! DSV$Exit routine to allow it to print the following CRD information.
: 0488 2
: 0489 2 CRD$GL_CRD_Debug_Vector [0] = .CRD$GA_Current_Diagnostic;      ![03]
: 0490 2 CRD$GL_CRD_Debug_Vector [1] = .CRD$GA_First_Diagnostic;      ![03]
: 0491 2 CRD$GL_CRD_Debug_Vector [2] = .CRD$GL_Current_TypeCode;      ![03]
: 0492 2 CRD$GL_CRD_Debug_Vector [3] = .CRD$GL_Current_State;      ![03]
: 0493 2 CRD$GL_CRD_Debug_Vector [4] = .CRD$GL_Current_Action;      ![03]
: 0494 2 CRD$GL_CRD_Debug_Vector [5] = .Address;      ![03]
: 0495 2 CRD$GL_CRD_Debug_Vector [6] = .Length;      ![03]
: 0496 2 CRD$GL_CRD_Debug_Vector [7] = .TypeCode;      ![03]
: 0497 2   ! This could be an Internal_Error code.      ![02]
: 0498 2
: 0499 2 IF (.Address NEQ 0) THEN      ![02]
: 0500 2   CRD$GL_CRD_Debug_Vector [8] = ..Address      ![03]
: 0501 2 ELSE
: 0502 2   CRD$GL_CRD_Debug_Vector [8] = x'FFFFFFFF';      ![03]
: 0503 2   ! Put this in as a clue to show that the address is not indirect ![03]
: 0504 2
: 0505 2 !+      ![02]
: 0506 2 ! This routine MUST call CRD$Stop here, because CRD$Internal_Error is called from routines for other ![03]
: 0507 2 ! than action routine uses.      ![03]
: 0508 2 !-      ![02]
: 0509 2
: 0510 2 CRD$Stop (AUTO$K_Exit_Internal_Error);      ![18]
: 0511 3 RETURN (CRD$K_Success)
: 0512 1 END;      ! Routine CRD$Internal_Error
  
```

```

.EXTRN CRD$AL_CRD_DISPATCH_VECTORS
.EXTRN CRD$GL_CRD_DEBUG_VECTOR
.EXTRN CRD$GL_CURRENT_TYPECODE
.EXTRN CRD$GL_CURRENT_STATE
.EXTRN CRD$GL_CURRENT_ACTION
  
```

```

0000 00000 .ENTRY CRD$INTERNAL_ERROR, Save nothing      ; 0451
00000000G EF 96 00002 INCB CRD$AL_CRD_DISPATCH_VECTORS+1      ; 0485
00000000G EF 00000000G EF D0 00008 MOVL CRD$GA_CURRENT_DIAGNOSTIC, -      ; 0489
CRD$GL_CRD_DEBUG_VECTOR ;
00000000G EF 00000000G EF D0 00013 MOVL CRD$GA_FIRST_DIAGNOSTIC, -      ; 0490
CRD$GL_CRD_DEBUG_VECTOR+4 ;
00000000G EF 00000000G EF D0 0001E MOVL CRD$GL_CURRENT_TYPECODE, -      ; 0491
  
```

```

    CRD$GL_CRD_DEBUG_VECTOR+8
00000000G EF 00000000G EF D0 00029 ; MOVL CRD$GL_CURRENT_STATE, - ; 0492
    CRD$GL_CRD_DEBUG_VECTOR+12
00000000G EF 00000000G EF D0 00034 ; MOVL CRD$GL_CURRENT_ACTION, - ; 0493
    CRD$GL_CRD_DEBUG_VECTOR+16
00000000G EF 0C AC D0 0003F MOVL ADDRESS, CRD$GL_CRD_DEBUG_VECTOR+20 ; 0494
00000000G EF 08 AC D0 00047 MOVL LENGTH, CRD$GL_CRD_DEBUG_VECTOR+24 ; 0495
00000000G EF 04 AC D0 0004F MOVL TYPECODE, CRD$GL_CRD_DEBUG_VECTOR+28 ; 0496
0C AC D5 00057 TSTL ADDRESS ; 0499
    OA 13 0005A BEQL 1$ ;
00000000G EF 0C BC D0 0005C MOVL @ADDRESS, CRD$GL_CRD_DEBUG_VECTOR+32 ; 0500
    07 11 00064 BRB 2$ ;
00000000G EF 01 CE 00066 1$: MNEGL #1, CRD$GL_CRD_DEBUG_VECTOR+32 ; 0502
    01 DD 0006D 2$: PUSHL #1 ; 0510
00000000G EF 01 FB 0006F CALLS #1, CRD$STOP ;
    50 01 D0 00076 MOVL #1, R0 ; 0511
    04 00079 RET ; 0512
  
```

; Routine Size: 122 bytes, Routine Base: CODE + 013E


```

: 0513 1 xSBTTL 'CRD$Load_Error'
: 0514 1
: 0515 1 GLOBAL ROUTINE CRD$Load_Error =
: 0516 1
: 0517 1 !*
: 0518 1 | Functional Description:
: 0519 1 |
: 0520 1 | There was an error in loading the diagnostic. Print a message telling the operator
: 0521 1 | this and go to the next diagnostic.
: 0522 1 |
: 0523 1 | Formal Parameters:
: 0524 1 |
: 0525 1 | None
: 0526 1 |
: 0527 1 | Side Effects:
: 0528 1 |
: 0529 1 | None
: 0530 1 |
: 0531 1 | Completion Codes:
: 0532 1 |
: 0533 1 | CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0534 1 | CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0535 1 | CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0536 1 | --

```

```

: 0537 2 BEGIN      ! Routine CRD$Load_Error
: 0538 2 MAP
: 0539 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0540 2
: 0541 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;    ![[19]
: 0542 2       ! We will print a message here                ![[19]
: 0543 2
: 0544 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;    ![[18]
: 0545 2       ! We did not complete testing on this device.    ![[18]
: 0546 2
: 0547 2   !+
: 0548 2   ! Print a message indicating that the diagnostic could not be loaded for some reason.
: 0549 2   ! Return Repeat_Turing so that the Turing_Machine can do an Advance_State (to the
: 0550 2   ! Advance_Diagnostic state).
: 0551 2   !-
: 0552 2
: 0553 2   $CRD_Print (CRD$GT_Cannot_Load_Diag);
: 0554 2
: 0555 2   CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
: 0556 2
: 0557 3   RETURN (CRD$K_Repeat_Turing)
: 0558 1 END;      ! Routine CRD$Load_Error

```

.EXTRN CRD\$GT_CANNOT_LOAD_DIAG

```

      0000 00000 .ENTRY CRD$LOAD_ERROR, Save nothing ; 0515
      50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0541
14 A0 40 8F 88 00009 BISB2 #64, 20(R0) ;
14 A0 20 8A 0000E BICB2 #32, 20(R0) ; 0544
00000000G EF 9F 00012 PUSHAB CRD$GT_CANNOT_LOAD_DIAG ; 0553
      01 DD 00018 PUSHL #1 ;
      1A DD 0001A PUSHL #26 ;
00000000G FF 03 FB 0001C CALLS #3, @CRD$PRINT ;
00000000G EF DD 00023 PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 0555
00000000V EF 01 FB 00029 CALLS #1, CRD$PRINT_DDB ;
      50 02 D0 00030 MOVL #2, R0 ; 0557
      04 00033 RET ; 0558

```

; Routine Size: 52 bytes, Routine Base: CODE + 01B8

```

; 0559 1 $SBTTL 'CRD$Preparation_Error'
; 0560 1
; 0561 1 GLOBAL ROUTINE CRD$Preparation_Error =
; 0562 1
; 0563 1 |**
; 0564 1 | Functional Description:
; 0565 1 |
; 0566 1 | A preparation error occurred while running a diagnostic (not EVSBA, the AutoSizer though).
; 0567 1 | Print a message saying that this test is incomplete and return Repeat_Turing. The state
; 0568 1 | table will advance to the Advance_Diagnostic state.
; 0569 1 |
; 0570 1 | Formal Parameters:
; 0571 1 |
; 0572 1 | None
; 0573 1 |
; 0574 1 | Side Effects:
; 0575 1 |
; 0576 1 | None
; 0577 1 |
; 0578 1 | Completion Codes:
; 0579 1 |
; 0580 1 | CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 0581 1 | CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 0582 1 | CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0583 1 | --

```

```

: 0584 2 BEGIN      ! Routine CRD$Preparation_Error
: 0585 2 MAP
: 0586 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0587 2
: 0588 2 BIND
: 0589 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
: 0590 2   : Hardware_Support_Vector;
: 0591 2
: 0592 2 BIND
: 0593 2   Prep_Error_Text = (.Diag_Vector_Ptr [CRD$K_Preparation_Error_Text]) : VECTOR [, BYTE];
: 0594 2
: 0595 2 BIND
: 0596 2   User_Error_Text_Address = (.CRD$GA_User_Error_Text) : VECTOR [, BYTE],
: 0597 2   User_Error_Text = (..CRD$GA_User_Error_Text) : VECTOR [, BYTE];
: 0598 2
: 0599 2 LOCAL
: 0600 2   No_User_Text : BYTE INITIAL (False);
: 0601 2
: 0602 2 !+
: 0603 2 ! Indicate in the DDB status bits that this device had a prep error and that we did not complete testing.
: 0604 2 !-
: 0605 2
: 0606 2 CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error> = True;      ![[13]
: 0607 2 CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;      ![[19]
: 0608 2 CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;    ![[18]
: 0609 2
: 0610 2 !+
: 0611 2 ! Print a message saying that we got a preparation error. The testing will not be
: 0612 2 ! done on the current device (i.e., since the hardware is not properly setup for the
: 0613 2 ! current diagnostic, the diagnostic cannot be run).
: 0614 2 !-
: 0615 2
: 0616 2 !+
: 0617 2 ! These checks must be made in this order. Even though it appears they could be made into one IF
: 0618 2 ! statement involving an OR, this is not so because BLISS does not guarantee in what order the
: 0619 2 ! expressions will be evaluated.
: 0620 2 !-
: 0621 2
: 0622 2 IF (.User_Error_Text_Address EQL 0) THEN
: 0623 2   No_User_Text = True;
: 0624 2
: 0625 2 IF (NOT .No_User_Text) THEN
: 0626 2   IF (.User_Error_Text [0] EQL 0) THEN
: 0627 2     No_User_Text = True;
: 0628 2
: 0629 2 $CRD_Print (CRD$GT_New_Line); ! Print a <CR><LF>.
: 0630 2
: 0631 2 IF (.No_User_Text) THEN
: 0632 3   BEGIN
: 0633 3     !+
: 0634 3     ! Either the address passed to DSX$ErrPrep is 0, or the user has specified a null ASCII string.
: 0635 3     ! Do not print the first line (since there is no user error text).
: 0636 3     !-
: 0637 3     $CRD_Print (CRD$GT_Prep_Error_Spaces, Prep_Error_Text [0]);      ![[23]
: 0638 3   END

```

```

: 0639 2 ELSE
: 0640 3 BEGIN
: 0641 3 LOCAL      ![[04]
: 0642 3   Difference;      ![[04]
: 0643 3
: 0644 3   Difference = ABS (.User_Error_Text [0] - .Prep_Error_Text [0]);      ![[04]
: 0645 3
: 0646 3   IF (.User_Error_Text [0] GTR .Prep_Error_Text [0]) THEN
: 0647 4   BEGIN
: 0648 4   !*
: 0649 4   ! The first line will be longer than the second line. Thus, the second line must be
: 0650 4   ! centered. The first line needs no spaces.      ![[04]
: 0651 4   !-
: 0652 4   LOCAL
: 0653 4   Right, Left;
: 0654 4
: 0655 4   !Left = (.Difference + 1) / 2;      ![[04]
: 0656 4   !Right = .Difference - .Left;      ![[04]
: 0657 4   Right=1;
: 0658 4   Left=1;      !      [22]
: 0659 4
: 0660 4   $CRD_Print (CRD$GT_Prep_Error_Spaces, User_Error_Text [0]); ![[23]
: 0661 4   $CRD_Print (CRD$GT_Prep_Error_Spaces, Prep_Error_Text [0]); ![[23]
: 0662 4   END
: 0663 3 ELSE
: 0664 4 BEGIN
: 0665 4 !*
: 0666 4 ! The second line will be longer than the first line. Thus, the first line must be
: 0667 4 ! centered. The second line needs no spaces.      ![[04]
: 0668 4 !-
: 0669 4 LOCAL
: 0670 4 Right, Left;
: 0671 4
: 0672 4 !Left = (.Difference + 1) / 2;      ![[04]
: 0673 4 !Right = .Difference - .Left;      ![[04]
: 0674 4 Left=1;
: 0675 4 Right=1;      !      [22]
: 0676 4 $CRD_Print (CRD$GT_Prep_Error_Spaces, User_Error_Text [0]); ![[23]
: 0677 4 $CRD_Print (CRD$GT_Prep_Error_Spaces, Prep_Error_Text [0]); ![[23]
: 0678 4 END
: 0679 2 END;
: 0680 2
: 0681 2 $CRD_Print (CRD$GT_New_Line); ! Print a <CR><LF>.
: 0682 2
: 0683 2 CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
: 0684 2
: 0685 2 $DS_Abort (Arg = Program); ! Abort the currently running diagnostic program ![[14]
: 0686 2
: 0687 2 RETURN (CRD$K_Success); ! This will not be executed because the above will not return to here ![[19]
: 0688 1 END;      ! Routine CRD$Preparation_Error

```

```

.EXTRN CRD$GA_USER_ERROR_TEXT
.EXTRN CRD$GT_NEW_LINE

```

.EXTRN CRD\$GT_PREP_ERROR_SPACES

```

003C 00000 .ENTRY CRD$PREPARATION_ERROR, Save R2,R3,R4,R5 ; 0561
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0589
52 0C A0 D0 00009 MOVL 12(R0), R2 ;
54 00000000G FF D0 0000D MOVL @CRD$GA_USER_ERROR_TEXT, R4 ; 0597
55 94 00014 CLRB NO_USER_TEXT ;
14 A0 42 8F 88 00016 BISB2 #66, 20(R0) ; 0607
14 A0 20 8A 0001B BICB2 #32, 20(R0) ; 0608
00000000G FF D5 0001F TSTL @CRD$GA_USER_ERROR_TEXT ; 0622
03 12 00025 BNEQ 1$ ;
55 01 90 00027 MOVB #1, NO_USER_TEXT ; 0623
07 55 E8 0002A 1$: BLBS NO_USER_TEXT, 2$ ; 0625
64 95 0002D TSTB (R4) ; 0626
03 12 0002F BNEQ 2$ ;
55 01 90 00031 MOVB #1, NO_USER_TEXT ; 0627
00000000G EF 9F 00034 2$: PUSHAB CRD$GT_NEW_LINE ; 0629
01 DD 0003A PUSHL #1 ;
1A DD 0003C PUSHL #26 ;
00000000G FF 03 FB 0003E CALLS #3, @CRD$PRINT ;
53 00000000G EF D0 00045 MOVL CRD$PRINT, R3 ; 0637
12 55 E9 0004C BLBC NO_USER_TEXT, 3$ ; 0631
1C A2 DD 0004F PUSHL 28(R2) ; 0637
00000000G EF 9F 00052 PUSHAB CRD$GT_PREP_ERROR_SPACES ;
01 DD 00058 PUSHL #1 ;
1A DD 0005A PUSHL #26 ;
63 04 FB 0005C CALLS #4, (R3) ;
35 11 0005F BRB 5$ ; 0631
50 64 9A 00061 3$: MOVZBL (R4), R0 ; 0644
51 1C B2 9A 00064 MOVZBL @28(R2), R1 ;
50 51 C2 00068 SUBL2 R1, R0 ;
03 18 0006B BGEQ 4$ ;
50 50 CE 0006D MNEGL DIFFERENCE, DIFFERENCE ;
50 01 D0 00070 4$: MOVL #1, RIGHT ; 0675
54 DD 00073 PUSHL R4 ; 0676
00000000G EF 9F 00075 PUSHAB CRD$GT_PREP_ERROR_SPACES ;
01 DD 0007B PUSHL #1 ;
1A DD 0007D PUSHL #26 ;
63 04 FB 0007F CALLS #4, (R3) ;
1C A2 DD 00082 PUSHL 28(R2) ; 0677
00000000G EF 9F 00085 PUSHAB CRD$GT_PREP_ERROR_SPACES ;
01 DD 0008B PUSHL #1 ;
1A DD 0008D PUSHL #26 ;
00000000G FF 04 FB 0008F CALLS #4, @CRD$PRINT ;
00000000G EF 9F 00096 5$: PUSHAB CRD$GT_NEW_LINE ; 0681
01 DD 0009C PUSHL #1 ;
1A DD 0009E PUSHL #26 ;
00000000G FF 03 FB 000A0 CALLS #3, @CRD$PRINT ;
00000000G EF DD 000A7 PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 0683
00000000V EF 01 FB 000AD CALLS #1, CRD$PRINT_DDB ;
00000000G 9F 00 FB 000B4 CALLS #0, @DS$ABORT ; 0685
50 01 D0 000BB MOVL #1, R0 ; 0687
04 000BE RET ; 0688

```

; Routine Size: 191 bytes, Routine Base: CODE + 01EC

ZZ-ENSAB-2.0 CRD\$Preparation_Error K 9
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame K9 Sequence 320
01-22 CRD\$Preparation_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 Page 30
(21)

ZZ-ENSAB-2.0 CRD\$Print_DDB
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
01-22 CRD\$Print_DDB 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (22)

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```
: 0689 1 xSBTTL 'CRD$Print_DDB'
: 0690 1
: 0691 1 GLOBAL ROUTINE CRD$Print_DDB (DDB_Ptr) =
: 0692 1
: 0693 1 !++
: 0694 1 ! Functional Description:
: 0695 1 !
: 0696 1 ! None
: 0697 1 !
: 0698 1 ! Formal Parameters:
: 0699 1 !
: 0700 1 ! DDB_Ptr: The address of a Device Data Block
: 0701 1 !
: 0702 1 ! Side Effects:
: 0703 1 !
: 0704 1 ! None
: 0705 1 !
: 0706 1 ! Completion Codes:
: 0707 1 !
: 0708 1 ! CRD$K_Success
: 0709 1 ! --
```



```

; 0710 2 BEGIN      ! Routine CRD$Print_DDB
; 0711 2 MAP
; 0712 2   DDB_Ptr : REF Device_Data_Block_Structure;
; 0713 2
; 0714 2   IF (.CRD$GB_CRD_Debug) THEN
; 0715 3   BEGIN
; 0716 3     $CRD_Print ($ASCIC ('!/Printing the contents of the !XL DDB:!/'), .DDB_Ptr);
; 0717 3     $CRD_Print ($ASCIC (' FLink:          !XL!/'), .DDB_Ptr [CRD$K_DDB_FLink]);
; 0718 3     $CRD_Print ($ASCIC (' BLink:          !XL!/'), .DDB_Ptr [CRD$K_DDB_BLink]);
; 0719 3     $CRD_Print ($ASCIC (' PTable_Entry:    !XL!/'), .DDB_Ptr [CRD$K_DDB_PTable_Entry]);
; 0720 3     $CRD_Print ($ASCIC (' Auto_Support_Entry: !XL!/'), .DDB_Ptr [CRD$K_DDB_Auto_Support_Entry]);
; 0721 3     $CRD_Print ($ASCIC (' Menu_Support_Entry: !XL!/'), .DDB_Ptr [CRD$K_DDB_Menu_Support_Entry]);
; 0722 3     $CRD_Print ($ASCIC (' Status:          !XL!/'), .DDB_Ptr [CRD$K_DDB_Status]);
; 0723 2   END;
; 0724 2
; 0725 2   RETURN (CRD$K_Success);
; 0726 1 END;      ! Routine CRD$Print_DDB
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

65 68 74 20 67 6E 69 74 6E 69 72 50 2F 21 29 0009B P.AAD: .ASCII \)!/Printing the contents of the !XL DDB:\ ;
68 74 20 66 6F 20 73 74 6E 65 74 6E 6F 63 20 000AA ;
    3A 42 44 44 20 4C 58 21 20 65 000B9 ;
    2F 21 000C3 .ASCII \)!/\ ;
20 20 20 20 20 20 3A 6B 6E 69 4C 46 20 20 1B 000C5 P.AAE: .ASCII <27>\ FLink:          !XL!/\ ;
2F 21 4C 58 21 20 20 20 20 20 20 20 20 000D4 ;
20 20 20 20 20 20 3A 6B 6E 69 4C 42 20 20 1B 000E1 P.AAF: .ASCII <27>\ BLink:          !XL!/\ ;
2F 21 4C 58 21 20 20 20 20 20 20 20 20 000F0 ;
79 72 74 6E 45 5F 65 6C 62 61 54 50 20 20 1B 000FD P.AAG: .ASCII <27>\ PTable_Entry:    !XL!/\ ;
2F 21 4C 58 21 20 20 20 20 20 20 20 3A 0010C ;
74 72 6F 70 70 75 53 5F 6F 74 75 41 20 20 1B 00119 P.AAH: .ASCII <27>\ Auto_Support_Entry: !XL!/\ ;
2F 21 4C 58 21 20 3A 79 72 74 6E 45 5F 00128 ;
74 72 6F 70 70 75 53 5F 75 6E 65 4D 20 20 1B 00135 P.AAI: .ASCII <27>\ Menu_Support_Entry: !XL!/\ ;
2F 21 4C 58 21 20 3A 79 72 74 6E 45 5F 00144 ;
20 20 20 20 20 3A 73 75 74 61 74 53 20 20 1B 00151 P.AAJ: .ASCII <27>\ Status:          !XL!/\ ;
2F 21 4C 58 21 20 20 20 20 20 20 20 20 00160 ;
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

    0004 00000 .ENTRY CRD$PRINT_DDB, Save R2 ; 0691
    03 00000000G EF E8 00002 BLBS CRD$GB_CRD_DEBUG, 1$ ; 0714
    008E 31 00009 BRW 2$ ;
    52 04 AC DO 0000C 1$: MOVL DDB_PTR, R2 ; 0716
    52 DD 00010 PUSHL R2 ;
    00000000' EF 9F 00012 PUSHAB P.AAD ;
    01 DD 00018 PUSHL #1 ;
    1A DD 0001A PUSHL #26 ;
    00000000G FF 04 FB 0001C CALLS #4, aCRD$PRINT ;
    62 DD 00023 PUSHL (R2) ; 0717
    00000000' EF 9F 00025 PUSHAB P.AAE ;
    01 DD 0002B PUSHL #1 ;
  
```

ZZ-ENSAB-2.0 CRD\$Print_DDB
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
01-22 CRD\$Print_DDB 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (23)

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```

    1A DD 0002D    PUSHL    #26
00000000G FF      04 FB 0002F    CALLS    #4, aCRD$PRINT
04 A2 DD 00036    PUSHL    4(R2)      ; 0718
00000000' EF 9F 00039    PUSHAB P.AAF      ;
    01 DD 0003F    PUSHL    #1
    1A DD 00041    PUSHL    #26
00000000G FF      04 FB 00043    CALLS    #4, aCRD$PRINT
08 A2 DD 0004A    PUSHL    8(R2)      ; 0719
00000000' EF 9F 0004D    PUSHAB P.AAG      ;
    01 DD 00053    PUSHL    #1
    1A DD 00055    PUSHL    #26
00000000G FF      04 FB 00057    CALLS    #4, aCRD$PRINT
0C A2 DD 0005E    PUSHL    12(R2)     ; 0720
00000000' EF 9F 00061    PUSHAB P.AAH      ;
    01 DD 00067    PUSHL    #1
    1A DD 00069    PUSHL    #26
00000000G FF      04 FB 0006B    CALLS    #4, aCRD$PRINT
10 A2 DD 00072    PUSHL    16(R2)     ; 0721
00000000' EF 9F 00075    PUSHAB P.AAI      ;
    01 DD 0007B    PUSHL    #1
    1A DD 0007D    PUSHL    #26
00000000G FF      04 FB 0007F    CALLS    #4, aCRD$PRINT
14 A2 DD 00086    PUSHL    20(R2)     ; 0722
00000000' EF 9F 00089    PUSHAB P.AAJ      ;
    01 DD 0008F    PUSHL    #1
    1A DD 00091    PUSHL    #26
00000000G FF      04 FB 00093    CALLS    #4, aCRD$PRINT
    50      01 D0 0009A 2$:  MOVL    #1, R0      ; 0725
04 0009D    RET      ; 0726
```

; Routine Size: 158 bytes, Routine Base: CODE + 02AB

```
: 0727 1 xSBTTL 'CRD$Start_Error'
: 0728 1
: 0729 1 GLOBAL ROUTINE CRD$Start_Error =
: 0730 1
: 0731 1 !**
: 0732 1 ! Functional Description:
: 0733 1 !
: 0734 1 ! There was an error in starting the diagnostic. Print a message telling the operator
: 0735 1 ! this and go to the next diagnostic.
: 0736 1 !
: 0737 1 ! Formal Parameters:
: 0738 1 !
: 0739 1 ! None
: 0740 1 !
: 0741 1 ! Side Effects:
: 0742 1 !
: 0743 1 ! None
: 0744 1 !
: 0745 1 ! Completion Codes:
: 0746 1 !
: 0747 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0748 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0749 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0750 1 ! --
```

```

; 0751 2 BEGIN      ! Routine CRD$Start_Error
; 0752 2 MAP
; 0753 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 0754 2
; 0755 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;    ![[19]
; 0756 2       ! We will print a message here.
; 0757 2
; 0758 2   CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;    ![[18]
; 0759 2       ! We did not complete testing on this device.
; 0760 2
; 0761 2   !+
; 0762 2   ! Print a message indicating that the diagnostic could not be started for some reason.
; 0763 2   ! Return Repeat_Turing so that the Turing_Machine can do an Advance_State (to the
; 0764 2   ! Advance_Diagnostic state).
; 0765 2   !-
; 0766 2
; 0767 2   $CRD_Print (CRD$GT_Start_Error);
; 0768 2
; 0769 2   CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
; 0770 2
; 0771 3   RETURN (CRD$K_Repeat_Turing)
; 0772 1 END;      ! Routine CRD$Start_Error
  
```

.EXTRN CRD\$GT_START_ERROR

```

      0000 00000 .ENTRY CRD$START_ERROR, Save nothing ; 0729
      50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0755
14 A0 40 8F 88 00009 BISB2 #64, 20(R0) ;
14 A0 20 8A 0000E BICB2 #32, 20(R0) ; 0758
00000000G EF 9F 00012 PUSHAB CRD$GT_START_ERROR ; 0767
      01 DD 00018 PUSHL #1 ;
      1A DD 0001A PUSHL #26 ;
00000000G FF 03 FB 0001C CALLS #3, @CRD$PRINT ;
00000000G EF DD 00023 PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 0769
FF34 CF 01 FB 00029 CALLS #1, CRD$PRINT_DDB ;
      50 02 D0 0002E MOVL #2, R0 ; 0771
      04 00031 RET ; 0772
  
```

; Routine Size: 50 bytes, Routine Base: CODE + 0349

: 0773 1 END ! End of CRDACT1 module
 : 0774 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
DATA	365	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	891	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced ...
\$ASCIC	Macro	Lib03 316	413 716 717 718 719 720 721 722
\$CRD_LITERALS	Macro	Lib01 208	
\$CRD_PRINT	Macro	Lib01 263	309 316 413 553 629 637 660 676
\$DS_ABORT	KeyWMacr	Lib03 318	685
\$DS_TYPEDEF	Macro	Lib03 263	309 316 416 553 629 637 660 676
\$EQLST	Macro	Lib04 208	263 309 316 416 553 629 637 660 676
\$ER	Comptime	224	
\$MODULE	Bind	224	
ADDRESS	RoutForm	451 494. 499. 500a.	
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	208 267	
AUTOSK_EXIT_CONTROL_C	Literal	208	
AUTOSK_EXIT_DUMMY_2	Literal	208	
AUTOSK_EXIT_DUMMY_3	Literal	208	
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	208	
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	208 424	
AUTOSK_EXIT_INTERNAL_ERROR	Literal	208 510	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	208	
AUTOSK_EXIT_LAST_REASON	Literal	208 208	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	208 440	
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	208 435	
AUTOSK_EXIT_NOERRORS_PREP	Literal	208 429	
BAD	Register	364 376= 391.	
BAD_DEVICE	Register	352 352= 391= 391. 416. 422.	
BOOLEAN	Macro	Lib01 399	401
COMPLETE	Register	351 351= 383= 383. 384. 416. 433.	
CRD\$AL_CRD_DISPATCH_VECTORS	External	Lib01 476m	485= 485.
CRD\$AUTOSIZER_ERROR	GlobRout	227 Lib01e	183f
CRD\$DIAGNOSTIC_ERROR	GlobRout	274 Lib01e	186f
CRD\$EXIT_CRD	GlobRout	325 Lib01e	189f
CRD\$GA_CURRENT_DIAGNOSTIC	External	Lib01 300m	302a= 303a= 306a= 311a= 313. 489.

[illegible]

ZZ-ENSAB-2.0 CRD\$Start_Error
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

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Symbol	Type	Defined	Referenced ...
CRD\$K_DIAGNOSTIC_NAME	Literal	208	
CRD\$K_DONE_GENERAL_COMS	Literal	208	
CRD\$K_DO_NOTHING	Literal	208	
CRD\$K_DUMMY_10	Literal	208	
CRD\$K_DUMMY_11	Literal	208	
CRD\$K_DUMMY_12	Literal	208	
CRD\$K_DUMMY_13	Literal	208	
CRD\$K_DUMMY_3	Literal	208	
CRD\$K_DUMMY_4	Literal	208	
CRD\$K_DUMMY_5	Literal	208	
CRD\$K_DUMMY_6	Literal	208	
CRD\$K_DUMMY_7	Literal	208	
CRD\$K_DUMMY_8	Literal	208	
CRD\$K_DUMMY_9	Literal	208	
CRD\$K_EXIT_CRD	Literal	208	
CRD\$K_HOOK_POINT	Literal	208	
CRD\$K_HS_INTERNAL_ERROR	Literal	208	
CRD\$K_IDC_EVDLB	Literal	208	
CRD\$K_IDC_EVDLC	Literal	208	
CRD\$K_IDC_EVDLD	Literal	208	
CRD\$K_IDC_EVRAD_0	Literal	208	
CRD\$K_IDC_EVRAD_1	Literal	208	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	208	
CRD\$K_INTERNAL_ERROR	Literal	208	
CRD\$K_LAST_ACTION_ROUTINE	Literal	208	
CRD\$K_LAST_ENTRY	Literal	208	
CRD\$K_LAST_FUNCTION	Literal	208	
CRD\$K_LAST_HOOK_POINT	Literal	208	
CRD\$K_LAST_INTERNAL_ERROR	Literal	208	
CRD\$K_LAST_TYPE	Literal	208	
CRD\$K_LESI_ENWCA	Literal	208	
CRD\$K_LESI_EVRMB_0	Literal	208	
CRD\$K_LESI_EVRMB_1	Literal	208	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	208	
CRD\$K_LEVEL_4_PASSED	Literal	208	
CRD\$K_LOAD_AUTOSIZER	Literal	208	
CRD\$K_LOAD_ERROR	Literal	208	
CRD\$K_LOAD_GENERAL_COM	Literal	208	
CRD\$K_LOAD_LOAD_COM	Literal	208	
CRD\$K_LOAD_SELECT_COM	Literal	208	
CRD\$K_LOAD_SET_EVENT_COM	Literal	208	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	208	
CRD\$K_LOAD_START_COM	Literal	208	
CRD\$K_LOAD_SUP_FILE	Literal	208	
CRD\$K_MM_INTERNAL_ERROR	Literal	208	
CRD\$K_NEW_LINE	Literal	208	
CRD\$K_PREPARATION_ERROR	Literal	208	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	208	593
CRD\$K_REPEAT_TURING	Literal	Lib01 557	771
CRD\$K_RUNTIME	Literal	208	
CRD\$K_SAME_LINE	Literal	208	
CRD\$K_SET_EVENT_ARGS	Literal	208	
CRD\$K_SET_FLAGS_ARGS	Literal	208	

CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32:1 (26)

Symbol	Type	Defined	Referenced	...
CRD\$K_SET_UP_DIAGNOSTIC	Literal	208		
CRD\$K_START	Literal	208		
CRD\$K_START_AUTOSIZER	Literal	208		
CRD\$K_START_ERROR	Literal	208		
CRD\$K_START_QUALIFIERS	Literal	208		
CRD\$K_STAR_LINE	Literal	208		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	208		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	208		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	208		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	208		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	208		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	208		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	208		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	208		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	208		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	208		
CRD\$K_STATE_DUMMY_1	Literal	208		
CRD\$K_STATE_DUMMY_10	Literal	208		
CRD\$K_STATE_DUMMY_12	Literal	208		
CRD\$K_STATE_DUMMY_13	Literal	208		
CRD\$K_STATE_DUMMY_2	Literal	208		
CRD\$K_STATE_DUMMY_3	Literal	208		
CRD\$K_STATE_DUMMY_4	Literal	208		
CRD\$K_STATE_DUMMY_6	Literal	208		
CRD\$K_STATE_DUMMY_7	Literal	208		
CRD\$K_STATE_DUMMY_8	Literal	208		
CRD\$K_STATE_EXIT_CRD	Literal	208		
CRD\$K_STATE_INTERNAL_ERROR	Literal	208		
CRD\$K_STATE_LAST_STATE	Literal	208		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	208		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	208		
CRD\$K_STATE_LOAD_ERROR	Literal	208		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	208		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	208		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	208		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	208		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	208		
CRD\$K_STATE_LOAD_START_COM	Literal	208		
CRD\$K_STATE_PREPARATION_ERROR	Literal	208		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	208		
CRD\$K_STATE_START	Literal	208		
CRD\$K_STATE_START_AUTOSIZER	Literal	208		
CRD\$K_STATE_START_ERROR	Literal	208		
CRD\$K_SUCCESS	Literal	Lib01 270	320	447 511 687 725
CRD\$K_TEST_START_TEXT	Literal	208		
CRD\$K_TQ_INTERNAL_ERROR	Literal	208		
CRD\$K_TYPECODE	Literal	208		
CRD\$K_UDA_0_EVDLB	Literal	208		
CRD\$K_UDA_0_EVDLC	Literal	208		
CRD\$K_UDA_0_EVDLD	Literal	208		
CRD\$K_UDA_0_EVRLA_0	Literal	208		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	208		
CRD\$K_UDA_1_EVDLB	Literal	208		

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Symbol	Type	Defined	Referenced	...
CRD\$K_UA_1_EVDLC	Literal	208		
CRD\$K_UA_1_EVDLD	Literal	208		
CRD\$K_UA_1_EVRLA_0	Literal	208		
CRD\$K_UA_1_EVRLA_1	Literal	208		
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal	208		
CRD\$K_UA_2_EVDLC	Literal	208		
CRD\$K_UA_2_EVDLD	Literal	208		
CRD\$K_UA_2_EVRLA_0	Literal	208		
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	208		
CRD\$K_UA_3_EVDLC	Literal	208		
CRD\$K_UA_3_EVDLD	Literal	208		
CRD\$K_UA_3_EVRLA_0	Literal	208		
CRD\$K_UA_3_EVRLA_1	Literal	208		
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	208		
CRD\$LOAD_ERROR	GlobRout	515 Lib01e	195f	
CRD\$PREPARATION_ERROR	GlobRout	561 Lib01e	198f	
CRD\$PRINT	External Lib01	263ac 309ac 316ac 416ac 553ac 629ac 637ac 660ac 661ac 676ac		
		677ac 681ac 716ac 717ac 718ac 719ac 720ac 721ac 722ac 767ac		
CRD\$PRINT_DDB	GlobRout	691 Lib01e	201f 313c 372c 555c 683c 769c	
CRD\$START_ERROR	GlobRout	729 Lib01e	204f	
CRD\$STOP	ExtRout Lib01	267c 424c 429c 435c 440c 510c		
DDB\$V_STATUS_DEVICE_BAD	Macro Lib01	303 376		
DDB\$V_STATUS_DEV_TEST_COMPLETE	Macro Lib01	306 374 544 608 758		
DDB\$V_STATUS_DIAGNOSTIC_ERROR	Macro Lib01	302		
DDB\$V_STATUS_ESSENTIAL_DEVICE	Macro Lib01	375		
DDB\$V_STATUS_MESSAGE_PRINTED	Macro Lib01	311 541 607 755		
DDB\$V_STATUS_PREPARATION_ERROR	Macro Lib01	377 606		
DDB_PTR	Register	355 357= 372. 374a. 375a. 376a. 377a. 408= 408a. 410.		
	RoutForm	691 712m 716. 717a. 718a. 719a. 720a. 721a. 722a.		
DEVICE_DATA_BLOCK_STRUCTURE	Structur Lib01	300 348 355 539 586 712 753		
DIAG_VECTOR_PTR	Bind	589 593.		
DIFFERENCE	Local	642 644=		
DS\$ABORT	ExtRout	318 318c 685e 685c		
DS\$K_PRINTB	Literal	263		
	Literal	309		
	Literal	316		
	Literal	416		
	Literal	553		
	Literal	629		
	Literal	637		
	Literal	660		
	Literal	661		
	Literal	676		
	Literal	677		
	Literal	681		
	Literal	716		
	Literal	717		
	Literal	718		
	Literal	719		
	Literal	720		
	Literal	721		

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
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Symbol Type Defined Referenced ...

	Literal	722		
	Literal	767		
DS\$K_PRINTF	Literal		263	263
	Literal	309	309	
	Literal	316	316	
	Literal	416	416	
	Literal	553	553	
	Literal	629	629	
	Literal	637	637	
	Literal	660	660	
	Literal	661	661	
	Literal	676	676	
	Literal	677	677	
	Literal	681	681	
	Literal	716	716	
	Literal	717	717	
	Literal	718	718	
	Literal	719	719	
	Literal	720	720	
	Literal	721	721	
	Literal	722	722	
	Literal	767	767	
DS\$K_PRINTI	Literal		263	
	Literal	309		
	Literal	316		
	Literal	416		
	Literal	553		
	Literal	629		
	Literal	637		
	Literal	660		
	Literal	661		
	Literal	676		
	Literal	677		
	Literal	681		
	Literal	716		
	Literal	717		
	Literal	718		
	Literal	719		
	Literal	720		
	Literal	721		
	Literal	722		
	Literal	767		
DS\$K_PRINTX	Literal		263	
	Literal	309		
	Literal	316		
	Literal	416		
	Literal	553		
	Literal	629		
	Literal	637		
	Literal	660		
	Literal	661		
	Literal	676		
	Literal	677		

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 (DS.CRD.V020)CRDACT1.B32;1 (26)

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Symbol Type Defined Referenced ...

	Literal	681	
	Literal	716	
	Literal	717	
	Literal	718	
	Literal	719	
	Literal	720	
	Literal	721	
	Literal	722	
	Literal	767	
DS\$K	TYPE_ABORT PROGRAM	Literal	263
	Literal	309	
	Literal	316	
	Literal	416	
	Literal	553	
	Literal	629	
	Literal	637	
	Literal	660	
	Literal	661	
	Literal	676	
	Literal	677	
	Literal	681	
	Literal	716	
	Literal	717	
	Literal	718	
	Literal	719	
	Literal	720	
	Literal	721	
	Literal	722	
	Literal	767	
DS\$K	TYPE_ABORT TEST	Literal	263
	Literal	309	
	Literal	316	
	Literal	416	
	Literal	553	
	Literal	629	
	Literal	637	
	Literal	660	
	Literal	661	
	Literal	676	
	Literal	677	
	Literal	681	
	Literal	716	
	Literal	717	
	Literal	718	
	Literal	719	
	Literal	720	
	Literal	721	
	Literal	722	
	Literal	767	
DS\$K	TYPE_COMMAND_ERR	Literal	263
	Literal	309	
	Literal	316	
	Literal	416	

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

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Symbol Type Defined Referenced ...

Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_COMMAND_OUT	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_CRD_AUTOTEST	Literal	263	263
Literal	309	309	
Literal	316	316	
Literal	416	416	
Literal	553	553	
Literal	629	629	
Literal	637	637	
Literal	660	660	
Literal	661	661	
Literal	676	676	
Literal	677	677	
Literal	681	681	
Literal	716	716	
Literal	717	717	
Literal	718	718	
Literal	719	719	
Literal	720	720	

Symbol ----- Type Defined Referenced ...

Literal	721	721	
Literal	722	722	
Literal	767	767	
DS\$K_TYPE_DS_PROMPT	Literal		263
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_DS_START	Literal		263
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRDEV	Literal		263
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 19-Sep-1985
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26) Fiche 2 Frame M10

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Symbol Type Defined Referenced ...

Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRHARD	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERROR_BODY	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERROR_END	Literal	263	
Literal	309		
Literal	316		

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CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

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Symbol Type Defined Referenced ...

Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRPREP	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRSOFT	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32:1 (26)

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Symbol Type Defined Referenced ...

Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRSUP	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERRSYS	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_ERR_HALT	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		

Symbol	Type	Defined	Referenced ...

Literal		676	
Literal		677	
Literal		681	
Literal		716	
Literal		717	
Literal		718	
Literal		719	
Literal		720	
Literal		721	
Literal		722	
Literal		767	
DS\$K_TYPE_EXCEPTION	Literal	263	
Literal		309	
Literal		316	
Literal		416	
Literal		553	
Literal		629	
Literal		637	
Literal		660	
Literal		661	
Literal		676	
Literal		677	
Literal		681	
Literal		716	
Literal		717	
Literal		718	
Literal		719	
Literal		720	
Literal		721	
Literal		722	
Literal		767	
DS\$K_TYPE_EXCEPTION_HEAD	Literal	263	
Literal		309	
Literal		316	
Literal		416	
Literal		553	
Literal		629	
Literal		637	
Literal		660	
Literal		661	
Literal		676	
Literal		677	
Literal		681	
Literal		716	
Literal		717	
Literal		718	
Literal		719	
Literal		720	
Literal		721	
Literal		722	
Literal		767	
DS\$K_TYPE_FIRST_PASS	Literal	263	
Literal		309	

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

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Symbol Type Defined Referenced ...

Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_GENERAL	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_GENERAL_ERROR	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		

Symbol	Type	Defined	Referenced	...
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Literal	719			
Literal	720			
Literal	721			
Literal	722			
Literal	767			
DS\$K_TYPE_NO_TESTS	Literal	263		
Literal	309			
Literal	316			
Literal	416			
Literal	553			
Literal	629			
Literal	637			
Literal	660			
Literal	661			
Literal	676			
Literal	677			
Literal	681			
Literal	716			
Literal	717			
Literal	718			
Literal	719			
Literal	720			
Literal	721			
Literal	722			
Literal	767			
DS\$K_TYPE_PARAM_ERROR	Literal	263		
Literal	309			
Literal	316			
Literal	416			
Literal	553			
Literal	629			
Literal	637			
Literal	660			
Literal	661			
Literal	676			
Literal	677			
Literal	681			
Literal	716			
Literal	717			
Literal	718			
Literal	719			
Literal	720			
Literal	721			
Literal	722			
Literal	767			
DS\$K_TYPE_PROGRAM_END	Literal	263		
Literal	309			
Literal	316			
Literal	416			
Literal	553			
Literal	629			
Literal	637			
Literal	660			

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CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
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Symbol Type Defined Referenced ...

Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_PROGRAM_INFO	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_PROGRAM_START	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_QIO_INVADP	Literal	263	

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
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Symbol Type Defined Referenced ...

Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_QIO_MODRIVER	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_QIO_WRONGVER	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		

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 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
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Symbol Type Defined Referenced ...

Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_SCRIPT_ECHO	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_SCRIPT_PNF	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		
Literal	660		
Literal	661		
Literal	676		
Literal	677		
Literal	681		
Literal	716		
Literal	717		
Literal	718		
Literal	719		
Literal	720		
Literal	721		
Literal	722		
Literal	767		
DS\$K_TYPE_SCRIPT_PROMPT	Literal	263	
Literal	309		
Literal	316		
Literal	416		
Literal	553		
Literal	629		
Literal	637		

ZZ-ENSAB-2.0 CRD\$Start_Error I 11
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

Fiche 2 Frame 111
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Sequence 344

Symbol Type Defined Referenced ...

L i t e r a l	660		
L i t e r a l	661		
L i t e r a l	676		
L i t e r a l	677		
L i t e r a l	681		
L i t e r a l	716		
L i t e r a l	717		
L i t e r a l	718		
L i t e r a l	719		
L i t e r a l	720		
L i t e r a l	721		
L i t e r a l	722		
L i t e r a l	767		
DS\$K_TYPE_SCRIPT_SKIP	L i t e r a l	263	
L i t e r a l	309		
L i t e r a l	316		
L i t e r a l	416		
L i t e r a l	553		
L i t e r a l	629		
L i t e r a l	637		
L i t e r a l	660		
L i t e r a l	661		
L i t e r a l	676		
L i t e r a l	677		
L i t e r a l	681		
L i t e r a l	716		
L i t e r a l	717		
L i t e r a l	718		
L i t e r a l	719		
L i t e r a l	720		
L i t e r a l	721		
L i t e r a l	722		
L i t e r a l	767		
DS\$K_TYPE_SEQUENCE_ERROR	L i t e r a l	263	
L i t e r a l	309		
L i t e r a l	316		
L i t e r a l	416		
L i t e r a l	553		
L i t e r a l	629		
L i t e r a l	637		
L i t e r a l	660		
L i t e r a l	661		
L i t e r a l	676		
L i t e r a l	677		
L i t e r a l	681		
L i t e r a l	716		
L i t e r a l	717		
L i t e r a l	718		
L i t e r a l	719		
L i t e r a l	720		
L i t e r a l	721		
L i t e r a l	722		
L i t e r a l	767		

BOOK	TITLE	SERIAL	DATE	PRICE
	Literal	309		
	Literal	316		
	Literal	416		
	Literal	553		
	Literal	629		
	Literal	637		
	Literal	660		
	Literal	661		
	Literal	676		
	Literal	677		
	Literal	681		
	Literal	716		

[illegible]

ZZ-ENSAB-2.0 CRD\$Start_Error
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

L 11

19-Sep-1985

Fiche 2 Frame L11

Sequence 347

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Symbol	Type	Defined	Referenced	...
HS\$K_ACTION_LOAD_ERROR	Literal	208		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	208		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	208		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	208		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	208		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	208		
HS\$K_ACTION_LOAD_START_COM	Literal	208		
HS\$K_ACTION_PREPARATION_ERROR	Literal	208		
HS\$K_ACTION_START_ERROR	Literal	208		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	208		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	208		
HS\$K_STATE_CHANGE_TABLE	Literal	208		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	208		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	208		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	208		
HS\$K_STATE_DUMMY_1	Literal	208		
HS\$K_STATE_DUMMY_2	Literal	208		
HS\$K_STATE_DUMMY_3	Literal	208		
HS\$K_STATE_DUMMY_4	Literal	208		
HS\$K_STATE_DUMMY_6	Literal	208		
HS\$K_STATE_INIT_HS	Literal	208		
HS\$K_STATE_INTERNAL_ERROR	Literal	208		
HS\$K_STATE_LAST_STATE	Literal	208		
HS\$K_STATE_LOAD_ERROR	Literal	208		
HS\$K_STATE_LOAD_GENERAL_COM	Literal	208		
HS\$K_STATE_LOAD_LOAD_COM	Literal	208		
HS\$K_STATE_LOAD_SELECT_COM	Literal	208		
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	208		
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	208		
HS\$K_STATE_LOAD_START_COM	Literal	208		
HS\$K_STATE_PREPARATION_ERROR	Literal	208		
HS\$K_STATE_START_ERROR	Literal	208		
INCORRECT_PREP	Register	353	353=	397= 397. 416. 427.
LEFT	Local	653	658=	
	Local	670	674=	
LENGTH	RoutForm	451	495.	
MEN\$K_HS_STATE_TABLE	Literal	208		
MEN\$K_MM_STATE_TABLE	Literal	208		
MEN\$K_TQ_STATE_TABLE	Literal	208		
MENU\$K_EXIT_AUTOSIZER_ERROR	Literal	208		
MENU\$K_EXIT_INTERNAL_ERROR	Literal	208		
MENU\$K_EXIT_LAST_REASON	Literal	208		
MENU\$K_EXIT_OPERATOR_ABORT	Literal	208		
MENU\$K_EXIT_OPERATOR_STOP	Literal	208		
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	208		
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	208		
MM\$K_ACTION_ADVANCE_STATE	Literal	208		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	208		
MM\$K_ACTION_BUILD_DDBS	Literal	208		
MM\$K_ACTION_BUILD_HSTS	Literal	208		
MM\$K_ACTION_CHANGE_TABLE	Literal	208		
MM\$K_ACTION_DONE_INITS	Literal	208		
MM\$K_ACTION_DO_NOTHING	Literal	208		

ZZ-ENSAB-2.0 CRD\$Start_Error
 CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746
 01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26)

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 19-Sep-1985

Fiche 2 Frame M11
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Sequence 348

Symbol	Type	Defined	Referenced ...
MM\$K_ACTION_DUMMY_3	Literal	208	
MM\$K_ACTION_DUMMY_4	Literal	208	
MM\$K_ACTION_DUMMY_5	Literal	208	
MM\$K_ACTION_DUMMY_6	Literal	208	
MM\$K_ACTION_DUMMY_7	Literal	208	
MM\$K_ACTION_DUMMY_8	Literal	208	
MM\$K_ACTION_INTERNAL_ERROR	Literal	208	
MM\$K_ACTION_LAST_ACTION	Literal	208	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	208	
MM\$K_ACTION_MENU_PROMPT	Literal	208	
MM\$K_ACTION_PRINT_MENU	Literal	208	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	208	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	208	
MM\$K_ACTION_START_AUTOSIZER	Literal	208	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	208	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	208	
MM\$K_STATE_BUILD_DDBS	Literal	208	
MM\$K_STATE_BUILD_HSTS	Literal	208	
MM\$K_STATE_CHANGE_TABLE	Literal	208	
MM\$K_STATE_DONE_INITS	Literal	208	
MM\$K_STATE_DUMMY_1	Literal	208	
MM\$K_STATE_DUMMY_2	Literal	208	
MM\$K_STATE_DUMMY_3	Literal	208	
MM\$K_STATE_DUMMY_5	Literal	208	
MM\$K_STATE_DUMMY_7	Literal	208	
MM\$K_STATE_DUMMY_8	Literal	208	
MM\$K_STATE_INTERNAL_ERROR	Literal	208	
MM\$K_STATE_LAST_STATE	Literal	208	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	208	
MM\$K_STATE_MENU_PROMPT	Literal	208	
MM\$K_STATE_PRINT_MENU	Literal	208	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	208	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	208	
MM\$K_STATE_START	Literal	208	
MM\$K_STATE_START_AUTOSIZER	Literal	208	
MODNAM	Macro	Lib02 224	
NO_USER_TEXT	Local	600 600= 623= 625. 627= 631.	
NUL2ND	Macro	Lib04 208 263 309 316 416 553 629 637 660 661	
		676 677 681 716 717 718 719 720 721 722	
		767	
PREP_ERROR	Register	363 377= 401.	
PREP_ERROR_TEXT	Bind	593 637a 644. 646. 661a 677a	
RIGHT	Local	653 657=	
	Local	670 675=	
TQ\$K_ACTION_ADVANCE_STATE	Literal	208	
TQ\$K_ACTION_CHANGE_TABLE	Literal	208	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	208	
TQ\$K_ACTION_DO_NOTHING	Literal	208	
TQ\$K_ACTION_DUMMY_3	Literal	208	
TQ\$K_ACTION_DUMMY_4	Literal	208	
TQ\$K_ACTION_DUMMY_5	Literal	208	
TQ\$K_ACTION_GET_DDB	Literal	208	
TQ\$K_ACTION_INIT_TQ	Literal	208	

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_INTERNAL_ERROR	Literal	208		
TQ\$K_ACTION_LAST_ACTION	Literal	208		
TQ\$K_STATE_CHANGE_TABLE	Literal	208		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	208		
TQ\$K_STATE_DUMMY_1	Literal	208		
TQ\$K_STATE_DUMMY_2	Literal	208		
TQ\$K_STATE_DUMMY_3	Literal	208		
TQ\$K_STATE_DUMMY_4	Literal	208		
TQ\$K_STATE_DUMMY_5	Literal	208		
TQ\$K_STATE_GET_DDB	Literal	208		
TQ\$K_STATE_INIT_TQ	Literal	208		
TQ\$K_STATE_INTERNAL_ERROR	Literal	208		
TQ\$K_STATE_LAST_STATE	Literal	208		
TRUE	Literal	Lib01 302	303 311 351 541 606 607 623 627 755	
TYPECODE	RoutForm	274		
	RoutForm	451 496.		
USER_ERROR_TEXT	Bind	597 626.	644. 646. 660a 676a	
USER_ERROR_TEXT_ADDRESS	Bind	596 622.		

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDACT1.B32;1
2	Module	CRDACT1
170	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
173	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
176	Library #3	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
179	Library #4	SY\$COMMON:[SYSLIB]LIB.L32;2
774	Eludom	CRDACT1

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Processing Mapped	Time
------	-------	----------------	---------	-------------------------	------

ZZ-ENSAB-2.0 CRD\$Start_Error B 12
CRDACT1 *** CRDACT1 Module 19-Sep-1985 16:31:19 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame B12 Sequence 350
01-22 CRD\$Start_Error 3-Jan-1985 17:01:58 [DS.CRD.V020]CRDACT1.B32;1 (26) Page 60

```
; DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
;      486      40      8      62      00:00.1
; DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
;      671      1      0      46      00:00.2
; DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
;      923      3      0      94      00:00.2
; SYS$COMMON:[SYSLIB]LIB.L32;2      18619      3      0      1000      00:04.2
```

; COMMAND QUALIFIERS

; BLISS CRDACT1.B32/LIST=CRDACT1.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDACT1.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

```
; Size: 891 code + 365 data bytes
; Run Time: 00:58.8
; Elapsed Time: 01:32.3
; Lines/CPU Min: 790
; Lexemes/CPU-Min: 72164
; Memory Used: 290 pages
; Compilation Complete
```

```
; 0001 0 xTITLE '*** CRDACT2 Module'
; 0002 0 MODULE CRDACT2 ( ! Routines to perform actions on DS typecodes
; 0003 0 IDENT = '01-17'
; 0004 0 ) =
; 0005 0 !**
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 ! -
```

```
: 0024 0 ! **
: 0025 0 ! Facility:
: 0026 0 !
: 0027 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 !
: 0029 0 ! Abstract:
: 0030 0 !
: 0031 0 ! This module contains the routines necessary to perform actions based upon
: 0032 0 ! a DS typecode and a current "state". A state table is used to determine what
: 0033 0 ! action routine should be undertaken.
: 0034 0 !
: 0035 0 ! Author:
: 0036 0 !
: 0037 0 ! Jack Stansbury
: 0038 0 !
: 0039 0 ! Creation Date:
: 0040 0 !
: 0041 0 ! 23-April-1982
: 0042 0 !
: 0043 0 ! Version:
: 0044 0 !
: 0045 0 ! 6.9
: 0046 0 !
: 0047 0 ! Modified By:
: 0048 0 !
: 0049 0 ! 01 Jack Stansbury, Version 1.0, June 21, 1982 (Summer!!!)
: 0050 0 ! Changed CRD$F_DDB to CRD$V_DDB. Also added functionality of the
: 0051 0 ! DDB$V_Status_End_Testing bit. This bit indicates that everything
: 0052 0 ! has been done on that device.
: 0053 0 !
: 0054 0 ! 02 Jack Stansbury, Version 1.0, June 22, 1982
: 0055 0 ! Took out the Error_Count variables. These are not needed for this version.
: 0056 0 ! Also added some functionality to the Internal_Error routine to allow it
: 0057 0 ! to be used as a general purpose internal error routine (i.e., callable from
: 0058 0 ! anywhere in CRD-AutoTest).
: 0059 0 !
: 0060 0 ! 03 Jack Stansbury, Version 1.0, July 2, 1982
: 0061 0 ! Made changes to the Internal_Error routine so that it will not overwrite
: 0062 0 ! the dispatch vectors before the vectors are no longer needed (i.e., CRD$Stop
: 0063 0 ! needs at least the CRD$Print address in the vectors to print things). Use
: 0064 0 ! a new global vector to store the things in that will later be transferred
: 0065 0 ! to the dispatch area by CRD$Stop.
: 0066 0 !
: 0067 0 ! 04 Jack Stansbury, Version 1.0, July 7, 1982
: 0068 0 ! Added code in the CRD$Preparation_Error routine that will do special case
: 0069 0 ! code for printing the preparation error message. This was necessary because
: 0070 0 ! of the way the message was printed when the user_error text was one character
: 0071 0 ! less in length than the prep_error text. This caused an asterisk to be left
: 0072 0 ! out. I'm not sure if this will fix the problem, but it may help.
: 0073 0 !
: 0074 0 ! 05 Jack Stansbury, Version 1.0, July 9, 1982
: 0075 0 ! Decrement the positive CRD version number when there is an internal error.
: 0076 0 ! This is contrary to the documentation in the DSV$Exit routine because the
: 0077 0 ! code in the routine is wrong (i.e., it does an INCL when it should have done
: 0078 0 ! a DECL). This will have to be changed in the DSV$Exit routine, and in the
```

```

: 0079 0 : CRD$Internal_Error routine later - after CRD-AutoTest goes out.
: 0080 0 :
: 0081 0 : 06 Jack Stansbury, Version 1.0, July 9, 1982
: 0082 0 : Make changes to the CRD$Diagnostic_Error routine. It was causing a problem because
: 0083 0 : I had made a change in the state_table (making a Script Prompt typecode activate
: 0084 0 : the Diagnostic_Error routine). The SELECTONE statement in the Internal_Error routine
: 0085 0 : did not know this new typecode, and it reported an internal error. So, I took out
: 0086 0 : the SELECTONE statement because it is really not needed. It was in there to keep
: 0087 0 : track of the number of different types of errors that occurred. I don't do that
: 0088 0 : anymore.
: 0089 0 :
: 0090 0 : 07 Jack Stansbury, Version 1.0, July 9, 1982
: 0091 0 : Make some changes in the Start_Error and Load_Error routines that will make the ending
: 0092 0 : message come out right. When one start error occurs, the ending message should be the
: 0093 0 : check device preparation message. To get this to come out, I set the Status_Essential_Dev
: 0094 0 : bit equal to True. That way, the Exit_CRD routine will think that an essential device
: 0095 0 : wasn't tested, and print the right message.
: 0096 0 :
: 0097 0 : 08 Jack Stansbury, Version 1.0, July 9, 1982
: 0098 0 : Changed the cose in the Preparation_Error routine to handle the special case of the
: 0099 0 : '!'* FAO construct when the parameter for the '*' is 0. The DS's FAO routine do not
: 0100 0 : handle this correctly. They eat a character out of the FAO control string. So, I have
: 0101 0 : to check for this when I print the preparation error messaes, and compensate for it.
: 0102 0 :
: 0103 0 : 09 Jack Stansbury, Version 1.1, July 16, 1982
: 0104 0 : Added functionality for CRD Menu Test.
: 0105 0 :
: 0106 0 : 10 Jack Stansbury, Version 1.1, July 23, 1982
: 0107 0 : Fix what is documented in [05] above.
: 0108 0 :
: 0109 0 : 11 Jack Stansbury, Version 6.9, July 25, 1982
: 0110 0 : Changed the Preparation error messages back to what they should have been (I fixed the
: 0111 0 : FAO routines).
: 0112 0 :
: 0113 0 : 12 Jack Stansbury, Version 1.1, July 25, 1982
: 0114 0 : Split the CRDACTION module into two different modules: CRDACT1 and CRDACT2. They both
: 0115 0 : retain the modification history of CRDACTION, but these modification historys become
: 0116 0 : particular to the module after this point. This module contains the action routines
: 0117 0 : that don't concern errors or exiting. This does not contain any global variables either.
: 0118 0 :
: 0119 0 : 13 Jack Stansbury, Version 1.1, August 20, 1982
: 0120 0 : Changed the field names for the DDBs, and made changes in the AutoSizer handling.
: 0121 0 :
: 0122 0 : 14 Jack Stansbury, Version 1.1, August 31, 1982
: 0123 0 : Added the Complete status bit to the DDB status handling in Advance_Diagnostic.
: 0124 0 :
: 0125 0 : 15 Jack Stansbury, 15-September-1982, Version 1.1
: 0126 0 : Added calls to the CRD$Print_DS_Command routine which will print the DS command currently
: 0127 0 : in the CLI command buffer. This is done only when the DSA$V_CRD_Trace flag is set.
: 0128 0 :
: 0129 0 : 16 Jack Stansbury, 30-September-1982, Version 1.1
: 0130 0 : Changed the state and action routine numbers all around - made them like the Menu states
: 0131 0 : and action numbers. Added two more action routines for Auto Test.
: 0132 0 :
: 0133 0 : 17 John Ciukaj 7-Apr-1983 Version 1.2

```


ZZ-ENSAB-2.0

*** CRDACT2 Module

F 12

19-Sep-1985

Fiche 2 Frame F12

Sequence 354

CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746
01-17 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (2)

```
; 0134 0 ! - Enhance CRD$Assign_PTable_Ptrs to:
; 0135 0 ! 1. specify base system type
; 0136 0 ! 2. specify hardware support table to be used
; 0137 0 ! 3. Build DDB's
; 0138 0 ! It is assumed that this routine is invoked following
; 0139 0 ! completion of Autosizer.
; 0140 0 !
; 0141 0 !--
```

ZZ-ENSAB-2.0 Libraries
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746
01-17 Libraries 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (3)

G 12

19-Sep-1985

Fiche 2 Frame G12

Sequence 355

Page 5

```
: 0142 0 xSBTTL 'Libraries'
: 0143 1 BEGIN      ! Begin the CRDACT2 module
: 0144 1
: 0145 1 LIBRARY
: 0146 1 '$CRD';
: 0147 1
: 0148 1 LIBRARY
: 0149 1 '$DS';
: 0150 1
: 0151 1 LIBRARY
: 0152 1 '$Diag';
: 0153 1
: 0154 1 LIBRARY
: 0155 1 'Sys$Library:Lib';
```

```

: 0156 1 xSBTTL 'Table of Contents'
: 0157 1
: 0158 1 FORWARD ROUTINE      ! In alphabetical order
: 0159 1
: 0160 1 CRD$Advance_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
: 0161 1      ! Advance to the next diagnostic
: 0162 1
: 0163 1 CRD$Advance_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0164 1      ! Go to the next general command
: 0165 1
: 0166 1 CRD$Assign_PTable_Ptrs : ADDRESSING_MODE (LONG_RELATIVE),
: 0167 1      ! Insert the PTable pointers into the DDBs
: 0168 1
: 0169 1 CRD$AutoSizer_Set_Flags : ADDRESSING_MODE (LONG_RELATIVE),
: 0170 1      ! Load the SET FLAGS command for the AutoSizer.
: 0171 1 CRD$Determine_Base_System : ADDRESSING_MODE (LONG_RELATIVE),
: 0172 1      ![[17]]
: 0173 1
: 0174 1 CRD$Done_General_Coms : ADDRESSING_MODE (LONG_RELATIVE),
: 0175 1      ! All done executing the set of general commands
: 0176 1
: 0177 1 CRD$Level_4_Passed : ADDRESSING_MODE (LONG_RELATIVE),      ![[16]]
: 0178 1      ! Print 'PASSED' for the level 4 diagnostic that runs previous ![[16]]
: 0179 1      ! to CRD Auto Test - Macro      ![[16]]
: 0180 1
: 0181 1 CRD$Load_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
: 0182 1      ! Load the AutoSizer
: 0183 1
: 0184 1 CRD$Load_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0185 1      ! Load a general command into the CLI data buffer

```

```

: 0186 1 CRD$Load_Load_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0187 1 ! Load a LOAD command into the CLI buffer.
: 0188 1
: 0189 1 CRD$Load_Select_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0190 1 ! Load a SELECT command into the CLI buffer.
: 0191 1
: 0192 1 CRD$Load_Set_Event_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0193 1 ! Load a SET EVENT command into the CLI buffer.
: 0194 1
: 0195 1 CRD$Load_Set_Flags_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0196 1 ! Load a SET FLAGS command into the CLI buffer.
: 0197 1
: 0198 1 CRD$Load_Start_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0199 1 ! Load a START command into the CLI buffer.
: 0200 1
: 0201 1 CRD$Set_Up_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),      ![16]
: 0202 1 ! Print the testing started message, and check to see of the ![16]
: 0203 1 ! device is attached. If not attached, print message and go to ![16]
: 0204 1 ! advance_diagnostic.      ![16]
: 0205 1
: 0206 1 CRD$Start_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE);
: 0207 1 ! Start the AutoSizer executing

```

ZZ-ENSAB-2.0 Included Macros and Literals J 12
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame J12 Sequence 358
01-17 Included Macros and Literals 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 Page 8 (6)

```
; 0208 1 xSBTTL 'Included Macros and Literals'
; 0209 1
; 0210 1 $DS_TypeDef;    ! Define the DS typecodes
; 0211 1 $CRD_Literals;    ! Define some literals for CRD
```

```
; 0212 1 xSBTTL 'Psect Definitions'
; 0213 1
; 0214 1 PSECT
; 0215 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0216 1
; 0217 1 PSECT
; 0218 1     CODE    = Code (   EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0219 1
; 0220 1 PSECT
; 0221 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0222 1
; 0223 1 PSECT
; 0224 1     GLOBAL = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Module-Global Static Storage L 12
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame L12 Sequence 360
01-17 Module-Global Static Storage 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 Page 10 (8)

; 0225 1 xSBTTL 'Module-Global Static Storage'
; 0226 1
; 0227 1 ModNam ('CRDACT2'); ! Module name for ErrSup macro

```

; 0228 1 xSBTTL 'CRD$Advance_Diagnostic'
; 0229 1
; 0230 1 GLOBAL ROUTINE CRD$Advance_Diagnostic =          ![[16]
; 0231 1      !
; 0232 1      !+
; 0233 1      ! V
; 0234 1      Functional Description:
; 0235 1      Advance the diagnostic pointer. If it is at the end of the list
; 0236 1      of diagnostics, go to done_diagnostics. If not, return repeat turing.
; 0237 1
; 0238 1      Formal Parameters:
; 0239 1
; 0240 1      None
; 0241 1
; 0242 1      Side Effects:
; 0243 1
; 0244 1      None
; 0245 1
; 0246 1      Completion Codes:
; 0247 1
; 0248 1      CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 0249 1      CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 0250 1      CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0251 1      --

```



```

; 0252 2 BEGIN      ! Routine CRD$Advance_Diagnostic
; 0253 2  MAP
; 0254 2  CRD$GA_First_Diagnostic  : REF Device_Data_Block_Structure,
; 0255 2  CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 0256 2
; 0257 2  !+
; 0258 2  ! If a message was not printed for the test just completed, print passed.
; 0259 2  !-
; 0260 2
; 0261 2  IF (NOT .CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed>) THEN
; 0262 2  $CRD_Print (CRD$GT_Pass);
; 0263 2
; 0264 2  IF (.CRD$GB_CRD_Debug) THEN
; 0265 2  $CRD_Print ($ASCII ('Advance_Diagnostic: before advancing!/' ));
; 0266 2
; 0267 2  CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
; 0268 2
; 0269 2  !+
; 0270 2  ! We are all done doing things for the current diagnostic. Advance to the next queue entry
; 0271 2  ! in the DDB queue.
; 0272 2  !-
; 0273 2
; 0274 2  CRD$GA_Current_Diagnostic = .CRD$GA_Current_Diagnostic [CRD$K_DDB_FLink];
; 0275 2
; 0276 2  IF (.CRD$GB_CRD_Debug) THEN
; 0277 2  $CRD_Print ($ASCII ('Advance_Diagnostic: after advancing!/' ));
; 0278 2
; 0279 2  CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
; 0280 2
; 0281 2  !+
; 0282 2  ! If we are back to the first one in the queue, then change the state number to
; 0283 2  ! Done_Diagnostics and Repeat_Turing to finish off CRD.
; 0284 2  !-
; 0285 2
; 0286 2  IF (.CRD$GA_Current_Diagnostic EQL .CRD$GA_First_Diagnostic) THEN
; 0287 2  CRD$GL_Current_State = CRD$K_State_Done_Diagnostics;      ! ^
; 0288 2
; 0289 3  RETURN (CRD$K_Repeat_Turing)      ![[16]]
; 0290 1  END;      ! Routine CRD$Advance_Diagnostic
    
```

.TITLE CRDACT2 *** CRDACT2 Module
 .IDENT \01-17\

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

6F 6E 32 54 43 41 44 52 43 07 0000 P.AAA: .ASCII <7>\CRDACT2\
64 61 20 65 72 6F 66 65 62 20 3A 63 69 74 73 00008 P.AAB: .ASCII \&Advance_Diagnostic: before advancing!\
2F 21 67 6E 69 63 6E 61 76 00026 ;
6F 6E 67 61 69 44 5F 65 63 6E 61 76 64 41 25 0002F P.AAC: .ASCII \xAdvance_Diagnostic: after advancing!\
76 64 61 20 72 65 74 66 61 20 3A 63 69 74 73 0003E ;
2F 21 67 6E 69 63 6E 61 0004D ;
    
```

\$MODULE- P.AAA

```
.EXTRN CRD$ADVANCE_DIAGNOSTIC
.EXTRN CRD$ADVANCE_GENERAL_COM
.EXTRN CRD$ASSIGN_PTABLE_PTRS
.EXTRN CRD$AUTOSIZER_SET_FLAGS
.EXTRN CRD$DONE_GENERAL_COMS
.EXTRN CRD$LEVEL_4_PASSED
.EXTRN CRD$LOAD_AUTOSIZER
.EXTRN CRD$LOAD_GENERAL_COM
.EXTRN CRD$LOAD_LOAD_COM
.EXTRN CRD$LOAD_SELECT_COM
.EXTRN CRD$LOAD_SET_EVENT_COM
.EXTRN CRD$LOAD_SET_FLAGS_COM
.EXTRN CRD$LOAD_START_COM
.EXTRN CRD$SET_UP_DIAGNOSTIC
.EXTRN CRD$START_AUTOSIZER
.EXTRN CRD$GA_FIRST_DIAGNOSTIC
.EXTRN CRD$GA_CURRENT_DIAGNOSTIC
.EXTRN CRD$GT_PASS, CRD$PRINT
.EXTRN CRD$GB_CRD_DEBUG
.EXTRN CRD$PRINT_DDB, CRD$GL_CURRENT_STATE
```

```
.PSECT CODE, NOWRT, SHR, PIC, 2
```

```
0000 00000 .ENTRY CRD$ADVANCE_DIAGNOSTIC, Save nothing ; 0230
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0261
11 14 A0 06 E0 00009 BBS #6, 20(R0), 1$ ;
00000000G EF 9F 0000E PUSHAB CRD$GT_PASS ; 0262
01 DD 00014 PUSHL #1 ;
1A DD 00016 PUSHL #26 ;
00000000G FF 03 FB 00018 CALLS #3, @CRD$PRINT ;
11 00000000G EF E9 0001F 1$: BLBC CRD$GB_CRD_DEBUG, 2$ ; 0264
00000000' EF 9F 00026 PUSHAB P.AAB ; 0265
01 DD 0002C PUSHL #1 ;
1A DD 0002E PUSHL #26 ;
00000000G FF 03 FB 00030 CALLS #3, @CRD$PRINT ;
00000000G EF DD 00037 2$: PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 0267
00000000G EF 01 FB 0003D CALLS #1, CRD$PRINT_DDB ;
00000000G EF 00000000G FF D0 00044 MOVL @CRD$GA_CURRENT_DIAGNOSTIC, - ; 0274
CRD$GA_CURRENT_DIAGNOSTIC ;
11 00000000G EF E9 0004F BLBC CRD$GB_CRD_DEBUG, 3$ ; 0276
00000000' EF 9F 00056 PUSHAB P.AAC ; 0277
01 DD 0005C PUSHL #1 ;
1A DD 0005E PUSHL #26 ;
00000000G FF 03 FB 00060 CALLS #3, @CRD$PRINT ;
00000000G EF DD 00067 3$: PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 0279
00000000G EF 01 FB 0006D CALLS #1, CRD$PRINT_DDB ;
00000000G EF 00000000G EF D1 00074 CMPL CRD$GA_CURRENT_DIAGNOSTIC, - ; 0286
CRD$GA_FIRST_DIAGNOSTIC ;
07 12 0007F BNEQ 4$ ;
00000000G EF 1A D0 00081 MOVL #26, CRD$GL_CURRENT_STATE ; 0287
50 02 D0 00088 4$: MOVL #2, R0 ; 0289
04 0008B RET ; 0290
```

```
; Routine Size: 140 bytes, Routine Base: CODE + 0000
```

ZZ-ENSAB-2.0 CRD\$Advance_Diagnostic C 13
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame C13 Sequence 364
01-17 CRD\$Advance_Diagnostic 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 Page 14 (10)

```

; 0291 1 xSBTTL 'CRD$Advance_General_Com'
; 0292 1
; 0293 1 GLOBAL ROUTINE CRD$Advance_General_Com =
; 0294 1
; 0295 1 !**
; 0296 1 ! Functional Description:
; 0297 1 !
; 0298 1 ! Advance the general command pointer. If it is at the end of the list
; 0299 1 ! of general commands, return failure. Otherwise, return success.
; 0300 1 !
; 0301 1 ! Formal Parameters:
; 0302 1 !
; 0303 1 ! None
; 0304 1 !
; 0305 1 ! Side Effects:
; 0306 1 !
; 0307 1 ! None
; 0308 1 !
; 0309 1 ! Completion Codes:
; 0310 1 !
; 0311 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 0312 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 0313 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0314 1 ! --

```

```

; 0315 2 BEGIN      ! Routine CRD$Advance_General_Com
; 0316 2
; 0317 2 IF (.CRD$GB_CRD_Debug) THEN
P 0318 2   $CRD_Print($ASCII('**** Advance_General_Com: Current = !XL!/''),
; 0319 2   .CRD$GL_Current_General_Com);
; 0320 2
; 0321 2 IF (.CRD$GL_Current_General_Com EQL (CRD$K_Numb_General_Commands - 1)) THEN
; 0322 3 BEGIN
; 0323 3   !+
; 0324 3   ! We are all done the list of general commands. Set the current state to a special
; 0325 3   ! number that indicates we are done executing these general commands.
; 0326 3   !-
; 0327 3   CRD$GL_Current_State = CRD$K_State_Done_General_Com;
; 0328 3 END
; 0329 2 ELSE
; 0330 3 BEGIN
; 0331 3   !+
; 0332 3   ! There are more general commands to execute. Get the next one.
; 0333 3   !-
; 0334 3   CRD$GL_Current_General_Com = .CRD$GL_Current_General_Com + 1;
; 0335 2 END;
; 0336 2
; 0337 3 RETURN (CRD$K_Repeat_Turing)
; 0338 1 END;      ! Routine CRD$Advance_General_Com

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

47 5F 65 63 6E 61 76 64 41 20 2A 2A 2A 2A 29 00055 P.AAD: .ASCII \)**** Advance_General_Com: Current = !XL\ ;
72 75 43 20 3A 6D 6F 43 5F 6C 61 72 65 6E 65 00064 ;
    4C 58 21 20 3D 20 74 6E 65 72 00073 ;
    2F 21 0007D .ASCII \!/\ ;

```

.EXTRN CRD\$GL_CURRENT_GENERAL_COM

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 .ENTRY CRD$ADVANCE_GENERAL_COM, Save nothing ; 0293
17 00000000G EF E9 00002 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0317
00000000G EF DD 00009 PUSHL CRD$GL_CURRENT_GENERAL_COM ; 0319
00000000' EF 9F 0000F PUSHAB P.AAD ;
01 DD 00015 PUSHL #1 ;
1A DD 00017 PUSHL #26 ;
00000000G FF 04 FB 00019 CALLS #4, aCRD$PRINT ;
02 00000000G EF D1 00020 1$: CMPL CRD$GL_CURRENT_GENERAL_COM, #2 ; 0321
09 12 00027 BNEQ 2$ ;
00000000G EF 10 D0 00029 MOVL #16, CRD$GL_CURRENT_STATE ; 0327
06 11 00030 BRB 3$ ; 0321
00000000G EF D6 00032 2$: INCL CRD$GL_CURRENT_GENERAL_COM ; 0334
50 02 D0 00038 3$: MOVL #2, R0 ; 0337
04 0003B RET ; 0338

```

; Routine Size: 60 bytes, Routine Base: CODE + 008C

ZZ-ENSAB-2.0 CRD\$Advance_General_Com F 13
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame F13 Sequence 367
01-17 CRD\$Advance_General_Com 3-Jan-1985 17:02:00 (DS.CRD.V020)CRDACT2.B32;1 Page 17 (12)

```

: 0339 1 xSBTTL 'CRD$Assign_PTable_Ptrs'
: 0340 1
: 0341 1 GLOBAL ROUTINE CRD$Assign_PTable_Ptrs =
: 0342 1
: 0343 1 !*
: 0344 1 ! Functional Description:          [17]
: 0345 1 !
: 0346 1 ! This routine is run after the AutoSizer has attached all
: 0347 1 ! the devices and built the PTables.
: 0348 1 !   1. Determine Base System type and Hardware Support Table
: 0349 1 !   2. Build Device Data Blocks (DDB's)
: 0350 1 !   3. Put the PTable pointers into the Device Data Blocks.
: 0351 1 !
: 0352 1 ! Formal Parameters:
: 0353 1 !
: 0354 1 ! None
: 0355 1 !
: 0356 1 ! Side Effects:          [17]
: 0357 1 !
: 0358 1 ! CRD is stopped if Invalid Base System.
: 0359 1 !
: 0360 1 ! Completion Codes:
: 0361 1 !
: 0362 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0363 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0364 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0365 1 ! --

```

```

: 0366 2 BEGIN      ! Routine CRD$Assign_PTable_Ptrs
: 0367 2  LOCAL      ![[16]
: 0368 2    DDB_Ptr;
: 0369 2
: 0370 2    !+      [17]
: 0371 2    ! Determine Base System and Hardware Support Table
: 0372 2    !-
: 0373 3    IF (CRD$Determine_Base_System () NEQ CRD$K_Success)
: 0374 2    THEN
: 0375 2      CRD$Stop (AUTO$K_Exit_Inv_Base_System);
: 0376 2
: 0377 2    !+      [17]
: 0378 2    ! Build Queue of Device Data Blocks
: 0379 2    !-
: 0380 2    CRD$Build_DDBs ();
: 0381 2
: 0382 2    DDB_Ptr = .CRD$GA_First_Diagnostic; !      [16]
: 0383 2    !
: 0384 2    !
: 0385 2    ! Point to the first DDB
: 0386 2    DO
: 0387 3      BEGIN
: 0388 3      MAP
: 0389 3      DDB_Ptr : REF Device_Data_Block_Structure;
: 0390 3      !+
: 0391 3      ! Find a PTable entry for the device name in the Hardware Support table.
: 0392 3      ! Insert this pointer (or 0 if no PTable for the device) into the DDB.
: 0393 3      !-
: 0394 3
: 0395 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = CRD$Find_PTable (
: 0396 4      (
: 0397 4      BIND
: 0398 5      Diag_Support_Vector = (.DDB_Ptr [CRD$K_DDB_Auto_Support_Entry])
: 0399 4      : Hardware_Support_Vector;
: 0400 4
: 0401 4      .Diag_Support_Vector [CRD$K_Device_Name]
: 0402 4      )
: 0403 3      );
: 0404 3
: 0405 3      CRD$Print_DDB (.DDB_Ptr);
: 0406 3
: 0407 3      DDB_Ptr = .DDB_Ptr [CRD$K_DDB_FLink];
: 0408 3      ! Advance to the next DDB in the queue
: 0409 3      END
: 0410 2    UNTIL (.DDB_Ptr EQL .CRD$GA_First_Diagnostic);      ! ^
: 0411 2
: 0412 3    RETURN (CRD$K_Repeat_Turing) ! Repeat Turing_Machine again.      ![[16]
: 0413 1  END;      ! Routine CRD$Assign_PTable_Ptrs

```

.EXTRN CRD\$STOP, CRD\$BUILD_DDBS
 .EXTRN CRD\$FIND_PTABLE

0004 00000 .ENTRY CRD\$ASSIGN_PTABLE_PTRS, Save R2 ; 0341


```

00000000V EF 00 FB 00002 CALLS #0, CRD$DETERMINE_BASE_SYSTEM ; 0373
01 50 D1 00009 CMPL R0, #1 ;
09 13 0000C BEQL 1$ ;
08 DD 0000E PUSHL #8 ; 0375
00000000G EF 01 FB 00010 CALLS #1, CRD$STOP ;
00000000G EF 00 FB 00017 1$: CALLS #0, CRD$BUILD_DDBS ; 0380
52 00000000G EF D0 0001E MOVL CRD$GA_FIRST_DIAGNOSTIC, DDB_PTR ; 0382
50 0C A2 D0 00025 2$: MOVL 12(DDB_PTR), R0 ; 0398
0C A0 DD 00029 PUSHL 12(R0) ; 0401
00000000G EF 01 FB 0002C CALLS #1, CRD$FIND_PTABLE ;
08 A2 50 D0 00033 MOVL R0, 8(DDB_PTR) ;
52 DD 00037 PUSHL DDB_PTR ; 0405
00000000G EF 01 FB 00039 CALLS #1, CRD$PRINT_DDB ;
52 62 D0 00040 MOVL (DDB_PTR), DDB_PTR ; 0407
00000000G EF 52 D1 00043 CMPL DDB_PTR, CRD$GA_FIRST_DIAGNOSTIC ; 0410
D9 12 0004A BNEQ 2$ ;
50 02 D0 0004C MOVL #2, R0 ; 0412
04 0004F RET ; 0413
  
```

; Routine Size: 80 bytes, Routine Base: CODE + 00C8

```
: 0414 1 xSBTTL 'CRD$AutoSizer_Set_Flags'
: 0415 1
: 0416 1 GLOBAL ROUTINE CRD$AutoSizer_Set_Flags (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0417 1
: 0418 1 !*
: 0419 1 ! Functional Description:
: 0420 1 !
: 0421 1 ! Load the AutoSizer's SET FLAGS command into the CLI buffer. Note: This is a mirror image of the
: 0422 1 ! Load_Set_Flags_Com routine above. This could be eliminated, but it would make the state table
: 0423 1 ! and make this routine more complicated.
: 0424 1 !
: 0425 1 ! Formal Parameters:
: 0426 1 !
: 0427 1 ! CLI_Buffer_Length : The length of the CLI buffer.
: 0428 1 ! CLI_Buffer_Address : The address of the CLI buffer.
: 0429 1 !
: 0430 1 ! Side Effects:
: 0431 1 !
: 0432 1 ! None
: 0433 1 !
: 0434 1 ! Completion Codes:
: 0435 1 !
: 0436 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0437 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0438 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0439 1 ! --
```

```

; 0440 2 BEGIN      ! Routine CRD$AutoSizer_Set_Flags
; 0441 2 MAP
; 0442 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 0443 2
; 0444 2 MAP
; 0445 2   CRD$GT_DS_SET_FLAGS_Com : VECTOR [, BYTE];
; 0446 2
; 0447 2 MAP          ![[13]]
; 0448 2   CRD$GT_AutoSizer_Set_Flags : VECTOR [, BYTE];          ![[13]]
; 0449 2
; 0450 2 IF (.CRD$GT_AutoSizer_Set_Flags [0] EQL 0) THEN          ![[13]]
; 0451 3   RETURN (CRD$K_Repeat_Turing)
; 0452 2 ELSE
; 0453 2   CH$COPY (
; 0454 2     .CRD$GT_DS_SET_FLAGS_Com [0],    CH$PTR (CRD$GT_DS_SET_FLAGS_Com [1]),    ![[13]]
; 0455 2     .CRD$GT_AutoSizer_Set_Flags [0], CH$PTR (CRD$GT_AutoSizer_Set_Flags [1]),    ![[13]]
; 0456 2     'C',
; 0457 2     .CLI_Buffer_Length,    CH$PTR (.CLI_Buffer_Address)
; 0458 2   );
; 0459 2
; 0460 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0461 2
; 0462 2   $CRD_Return_Length_Status (CRD$K_Success);
; 0463 1 END;      ! Routine CRD$AutoSizer_Set_Flags

```

```

.EXTRN CRD$GT_DS_SET_FLAGS_COM
.EXTRN CRD$GT_AUTOSIZER_SET_FLAGS
.EXTRN CRD$PRINT_DS_COMMAND

```

```

03FC 00000 .ENTRY CRD$AUTOSIZER_SET_FLAGS, Save R2,R3,R4,R5,- ; 0416
R6,R7,R8,R9
59 00000000G EF 9A 00002 MOVZBL CRD$GT_AUTOSIZER_SET_FLAGS, R9 ; 0450
04 12 00009 BNEQ 1$
50 02 0000B MOVL #2, R0 ; 0451
04 0000E RET
58 00000000G EF 9A 0000F 1$: MOVZBL CRD$GT_DS_SET_FLAGS_COM, R8 ; 0454
57 04 AC D0 00016 MOVL CLI_BUFFER_LENGTH, R7 ; 0457
56 08 AC D0 0001A MOVL CLI_BUFFER_ADDRESS, R6
57 20 00000000G EF 58 2C 0001E MOVC5 R8, CRD$GT_DS_SET_FLAGS_COM+1, #32, R7, - ;
66 00027 (R6)
10 18 00028 BGEQ 2$
56 58 C0 0002A ADDL2 R8, R6
57 58 C2 0002D SUBL2 R8, R7
57 20 00000000G EF 59 2C 00030 MOVC5 R9, CRD$GT_AUTOSIZER_SET_FLAGS+1, #32, R7, -;
66 00039 (R6)
7E 04 AC 7D 0003A 2$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0460
00000000G EF 02 FB 0003E CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00045 MOVL #5242881, R0 ; 0462
04 0004C RET ; 0463

```

; Routine Size: 77 bytes, Routine Base: CODE + 0118


```

; 0467 1 xSBTTL 'CRD$Determine_Base_System'
; 0468 1 ! [17]
; 0469 1
; 0470 1 GLOBAL ROUTINE CRD$Determine_Base_System =
; 0471 1
; 0472 1 !**
; 0473 1 ! Functional Description:
; 0474 1 !
; 0475 1 !   Determines if a valid base system exists. The system is
; 0476 1 !   determined by the following algorithm for the specified
; 0477 1 !   hardware configurations:
; 0478 1 !
; 0479 1 !   Configuration      ! System
; 0480 1 !   -----!
; 0481 1 !   IDC KLESI UDA50 !
; 0482 1 !   ----!
; 0483 1 !   1 0 0   IDC
; 0484 1 !   0 1 0   LESI
; 0485 1 !   0 0 1   UDA50
; 0486 1 !   1 1 0   IDC
; 0487 1 !   1 0 1   IDC
; 0488 1 !   1 1 1   IDC
; 0489 1 !   0 1 1   LESI or UDA50
; 0490 1 !   whichever is at CSR=772150
; 0491 1 !   0 0 0   Failure
; 0492 1 !
; 0493 1
; 0494 1
; 0495 1 ! Formal Parameters:
; 0496 1 !
; 0497 1 ! none
; 0498 1 !
; 0499 1 ! Implicit Outputs
; 0500 1 !
; 0501 1 ! CRD$GB_Base_System is specified with correct code. Initialized
; 0502 1 ! if failure.
; 0503 1 ! CRD$GB_Hdwr_Sprt_Table is specified with correct table pointer.
; 0504 1 ! Initialized if failure.
; 0505 1 !
; 0506 1 ! Side Effects:
; 0507 1 !
; 0508 1 ! None
; 0509 1 !
; 0510 1 ! Completion Codes:
; 0511 1 !
; 0512 1 ! CRD$K_Failure => Failure. Invalid or No Base System Found.
; 0513 1 ! CRD$K_Success => Success. Valid base system found.
; 0514 1 ! --

```

```

: 0515 2 BEGIN      ! Routine CRD$Determine_Base_System
: 0516 2 BIND
: 0517 2   IDC_Device_Name = $ASCIC ('DQA'),
: 0518 2   LESI_Device_Name = $ASCIC ('DAA'),
: 0519 2   UDA_Device_Name = $ASCIC ('DUA'),
: 0520 2   RA60_Drive_0_Device_Name
: 0521 2   = $ASCIC ('DJAO'),
: 0522 2   RA8081_Drive_0_Device_Name
: 0523 2   = $ASCIC ('DUA0'),
: 0524 2   RA60_Drive_1_Device_Name
: 0525 2   = $ASCIC ('DJA1');
: 0526 2 REGISTER
: 0527 2   IDC_PTable : LONG INITIAL (False),
: 0528 2   LESI_PTable : LONG INITIAL (False),
: 0529 2   UDA_PTable : LONG INITIAL (False),
: 0530 2   RA60_Drive_0_PTable
: 0531 2   : LONG INITIAL (False),
: 0532 2   RA8081_Drive_0_PTable
: 0533 2   : LONG INITIAL (False),
: 0534 2   RA60_Drive_1_PTable
: 0535 2   : LONG INITIAL (False);
: 0536 2 LOCAL
: 0537 2   CSR : WORD,
: 0538 2   PTable_Ptr : REF $DS_HPO_DECL();
: 0539 2
: 0540 2 CRD$GB_Base_System = CRD$K_Base_System_Null;
: 0541 2 CRD$GA_Hdwr_Sprt_Table = 0;
: 0542 2
: 0543 2 IDC_PTable = CRD$Find_PTable (IDC_Device_Name);
: 0544 2 LESI_PTable = CRD$Find_PTable (LESI_Device_Name);
: 0545 2 UDA_PTable = CRD$Find_PTable (UDA_Device_Name);
: 0546 2 RA60_Drive_0_PTable = CRD$Find_PTable (RA60_Drive_0_Device_Name);
: 0547 2 RA8081_Drive_0_PTable = CRD$Find_PTable (RA8081_Drive_0_Device_Name);
: 0548 2 RA60_Drive_1_PTable = CRD$Find_PTable (RA60_Drive_1_Device_Name);
: 0549 2
: 0550 2
: 0551 2 IF .IDC_PTable NEQ 0
: 0552 2 THEN
: 0553 3   BEGIN
: 0554 3     CRD$GB_Base_System = CRD$K_Base_System_IDC;
: 0555 3     CRD$GA_Hdwr_Sprt_Table = CRD$AL_IDC_Hdwr_Sprt_Table;
: 0556 3     RETURN CRD$K_Success;
: 0557 2   END;
: 0558 2
: 0559 2 IF .LESI_PTable NEQ 0
: 0560 2 THEN
: 0561 3   BEGIN
: 0562 3     PTable_Ptr = .LESI_PTable;
: 0563 3     CSR = .PTable_Ptr [HP$A_Device];
: 0564 3     IF .CSR EQL x0'172150'
: 0565 3     THEN
: 0566 4     BEGIN
: 0567 4       CRD$GB_Base_System = CRD$K_Base_System_LESI;
: 0568 4       CRD$GA_Hdwr_Sprt_Table = CRD$AL_LESI_Hdwr_Sprt_Table;
: 0569 4     RETURN CRD$K_Success;

```

```
: 0570 3 END;
: 0571 2 END;
: 0572 2
: 0573 2 IF .UDA_PTable NEQ 0
: 0574 2 THEN
: 0575 3 BEGIN
: 0576 3 PTable_Ptr = .UDA_PTable;
: 0577 3 CSR = .PTable_Ptr[HP$A_Device];
: 0578 3 IF .CSR EQL x0'172150'
: 0579 3 THEN
: 0580 4 BEGIN
: 0581 4 !
: 0582 4 ! Drive 1 - RA60
: 0583 4 ! Drive 0 - RA60
: 0584 4 !
: 0585 5 IF (.RA60_Drive_1_PTable NEQ 0) AND (.RA60_Drive_0_PTable NEQ 0)
: 0586 4 THEN
: 0587 5 BEGIN
: 0588 5 CRD$GB_Base_System = CRD$K_Base_System_UDA_3;
: 0589 5 CRD$GA_Hdwr_Sprt_Table = CRD$AL_UDA_3_Hdwr_Sprt_Table;
: 0590 5 RETURN CRD$K_Success;
: 0591 4 END;
: 0592 4 !
: 0593 4 ! Drive 1 - RA60
: 0594 4 ! Drive 0 - RA80, 81, or Nothing
: 0595 4 !
: 0596 4 IF (.RA60_Drive_1_PTable NEQ 0) AND
: 0597 5 ( (.RA8081_Drive_0_PTable NEQ 0) OR (.RA8081_Drive_0_PTable EQL 0) )
: 0598 4 THEN
: 0599 5 BEGIN
: 0600 5 CRD$GB_Base_System = CRD$K_Base_System_UDA_1;
: 0601 5 CRD$GA_Hdwr_Sprt_Table = CRD$AL_UDA_1_Hdwr_Sprt_Table;
: 0602 5 RETURN CRD$K_Success;
: 0603 4 END;
: 0604 4 !
: 0605 4 ! Drive 1 - no RA60
: 0606 4 ! Drive 0 - RA80 or 81
: 0607 4 !
: 0608 5 IF (.RA60_Drive_1_PTable EQL 0) AND (.RA8081_Drive_0_PTable NEQ 0)
: 0609 4 THEN
: 0610 5 BEGIN
: 0611 5 CRD$GB_Base_System = CRD$K_Base_System_UDA_0;
: 0612 5 CRD$GA_Hdwr_Sprt_Table = CRD$AL_UDA_0_Hdwr_Sprt_Table;
: 0613 5 RETURN CRD$K_Success;
: 0614 4 END;
: 0615 4 !
: 0616 4 ! Drive 1 no RA60
: 0617 4 ! Drive 0 - RA60
: 0618 4 !
: 0619 5 IF (.RA60_Drive_1_PTable EQL 0) AND (.RA60_Drive_0_PTable NEQ 0)
: 0620 4 THEN
: 0621 5 BEGIN
: 0622 5 CRD$GB_Base_System = CRD$K_Base_System_UDA_2;
: 0623 5 CRD$GA_Hdwr_Sprt_Table = CRD$AL_UDA_2_Hdwr_Sprt_Table;
: 0624 5 RETURN CRD$K_Success;
```

```

: 0625 4      END;
: 0626 4      !
: 0627 4      ! Default:
: 0628 4      ! Drive 1 - no RA60
: 0629 4      ! Drive 0 - no RA60, 80, or 81
: 0630 4      !
: 0631 4      CRD$GB_Base_System = CRD$K_Base_System_UDA_0;
: 0632 4      CRD$GA_Hdwr_Sprt_Table = CRD$AL_UDA_0_Hdwr_Sprt_Table;
: 0633 4      RETURN CRD$K_Success;
: 0634 3      END;
: 0635 2      END;
: 0636 2
: 0637 2      RETURN CRD$K_Failure;
: 0638 1      END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

41 51 44 03 0007F P.AAE: .ASCII <3>\DQA\ ;
41 41 44 03 00083 P.AAF: .ASCII <3>\DAA\ ;
41 55 44 03 00087 P.AAG: .ASCII <3>\DUA\ ;
30 41 4A 44 04 0008B P.AAH: .ASCII <4>\DJA0\ ;
30 41 55 44 04 00090 P.AAI: .ASCII <4>\DUA0\ ;
31 41 4A 44 04 00095 P.AAJ: .ASCII <4>\DJA1\ ;

```

```

IDC_DEVICE_NAME= P.AAE
LESI_DEVICE_NAME= P.AAF
UDA_DEVICE_NAME= P.AAG
RA60_DRIVE_0_DEVICE_NAME=
P.AAH
RA8081_DRIVE_0_DEVICE_NAME=
P.AAI
RA60_DRIVE_1_DEVICE_NAME=
P.AAJ

```

```

.EXTRN CRD$GB_BASE_SYSTEM
.EXTRN CRD$GA_HDWR_SPRT_TABLE
.EXTRN CRD$AL_IDC_HDWR_SPRT_TABLE
.EXTRN CRD$AL_LESI_HDWR_SPRT_TABLE
.EXTRN CRD$AL_UDA_3_HDWR_SPRT_TABLE
.EXTRN CRD$AL_UDA_1_HDWR_SPRT_TABLE
.EXTRN CRD$AL_UDA_0_HDWR_SPRT_TABLE
.EXTRN CRD$AL_UDA_2_HDWR_SPRT_TABLE

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

00FC 00000 .ENTRY CRD$DETERMINE_BASE_SYSTEM, Save R2,R3,R4,- ; 0470
R5,R6,R7 ;
52 7C 00002 CLRQ IDC_PTABLE ; 0515
54 7C 00004 CLRQ UDA_PTABLE ;
56 7C 00006 CLRQ RA8081_DRIVE_0_PTABLE ;
00000000G EF 94 00008 CLRB CRD$GB_BASE_SYSTEM ; 0540
00000000G EF D4 0000E CLRL CRD$GA_HDWR_SPRT_TABLE ; 0541
00000000' EF 9F 00014 PUSHAB IDC_DEVICE_NAME ; 0543
00000000G EF 01 FB 0001A CALLS #1, CRD$FIND_PTABLE ;

```



```

52      50 D0 00021  MOVL  R0, IDC_PTABLE ;
00000000' EF 9F 00024  PUSHAB LESI_DEVICE_NAME ; 0544
00000000G EF      01 FB 0002A  CALLS #1, CRD$FIND_PTABLE ;
53      50 D0 00031  MOVL  R0, LESI_PTABLE ;
00000000' EF 9F 00034  PUSHAB UDA_DEVICE_NAME ; 0545
00000000G EF      01 FB 0003A  CALLS #1, CRD$FIND_PTABLE ;
54      50 D0 00041  MOVL  R0, UDA_PTABLE ;
00000000' EF 9F 00044  PUSHAB RA60_DRIVE_0_DEVICE_NAME ; 0546
00000000G EF      01 FB 0004A  CALLS #1, CRD$FIND_PTABLE ;
55      50 D0 00051  MOVL  R0, RA60_DRIVE_0_PTABLE ;
00000000' EF 9F 00054  PUSHAB RA8081_DRIVE_0_DEVICE_NAME ; 0547
00000000G EF      01 FB 0005A  CALLS #1, CRD$FIND_PTABLE ;
56      50 D0 00061  MOVL  R0, RA8081_DRIVE_0_PTABLE ;
00000000' EF 9F 00064  PUSHAB RA60_DRIVE_1_DEVICE_NAME ; 0548
00000000G EF      01 FB 0006A  CALLS #1, CRD$FIND_PTABLE ;
57      50 D0 00071  MOVL  R0, RA60_DRIVE_1_PTABLE ;
52      52 D5 00074  TSTL  IDC_PTABLE ; 0551
15      13 00076  BEQL  1$ ;
00000000G EF      01 90 00078  MOVB #1, CRD$GB_BASE_SYSTEM ; 0554
00000000G EF 00000000G EF 9E 0007F  MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE, - ; 0555
CRD$GA_HDWR_SPRT_TABLE ;
00AE 31 0008A  BRW 8$ ; 0556
53      53 D5 0008D 1$: TSTL LESI_PTABLE ; 0559
23      13 0008F  BEQL  2$ ;
50      53 D0 00091  MOVL  LESI_PTABLE, PTABLE_PTR ; 0562
51      18 A0 B0 00094  MOVW  24(PTABLE_PTR), CSR ; 0563
F468 8F      51 B1 00098  CMPW  CSR, #62568 ; 0564
15      12 0009D  BNEQ  2$ ;
00000000G EF      02 90 0009F  MOVB #2, CRD$GB_BASE_SYSTEM ; 0567
00000000G EF 00000000G EF 9E 000A6  MOVAB CRD$AL_LESI_HDWR_SPRT_TABLE, - ; 0568
CRD$GA_HDWR_SPRT_TABLE ;
0087 31 000B1  BRW 8$ ; 0569
54      54 D5 000B4 2$: TSTL UDA_PTABLE ; 0573
03      12 000B6  BNEQ  3$ ;
0084 31 000B8  BRW 9$ ;
50      54 D0 000BB 3$: MOVL  UDA_PTABLE, PTABLE_PTR ; 0576
51      18 A0 B0 000BE  MOVW  24(PTABLE_PTR), CSR ; 0577
F468 8F      51 B1 000C2  CMPW  CSR, #62568 ; 0578
76      12 000C7  BNEQ  9$ ;
50      D4 000C9  CLRL  R0 ; 0585
57      D5 000CB  TSTL  RA60_DRIVE_1_PTABLE ;
1A      13 000CD  BEQL  4$ ;
50      D6 000CF  INCL  R0 ;
55      D5 000D1  TSTL  RA60_DRIVE_0_PTABLE ;
14      13 000D3  BEQL  4$ ;
00000000G EF      06 90 000D5  MOVB #6, CRD$GB_BASE_SYSTEM ; 0588
00000000G EF 00000000G EF 9E 000DC  MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE, - ; 0589
CRD$GA_HDWR_SPRT_TABLE ;
52      11 000E7  BRB 8$ ; 0590
16      50 E9 000E9 4$: BLBC R0, 5$ ; 0596
56      D5 000EC  TSTL  RA8081_DRIVE_0_PTABLE ; 0597
00000000G EF      04 90 000EE  MOVB #4, CRD$GB_BASE_SYSTEM ; 0600
00000000G EF 00000000G EF 9E 000F5  MOVAB CRD$AL_UDA_1_HDWR_SPRT_TABLE, - ; 0601
CRD$GA_HDWR_SPRT_TABLE ;
39      11 00100  BRB 8$ ; 0602
```

ZZ-ENSAB-2.0 CRD\$Determine_Base_System E 14
 CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame E14 Sequence 379
 01-17 CRD\$Determine_Base_System 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (18)

```

50 D4 00102 5$: CLRL R0 ; 0608
57 D5 00104 TSTL RA60_DRIVE_1_PTABLE ;
06 12 00106 BNEQ 6$ ;
50 D6 00108 INCL R0 ;
56 D5 0010A TSTL RA8081_DRIVE_0_PTABLE ;
1B 12 0010C BNEQ 7$ ;
18 50 E9 0010E 6$: BLBC R0, 7$ ; 0619
55 D5 00111 TSTL RA60_DRIVE_0_PTABLE ;
14 13 00113 BEQL 7$ ;
00000000G EF 05 90 00115 MOVB #5, CRD$GB_BASE_SYSTEM ; 0622
00000000G EF 00000000G EF 9E 0011C MOVAB CRD$AL_UDA_2_HDWR_SPRT_TABLE, - ; 0623
CRD$GA_HDWR_SPRT_TABLE ;
12 11 00127 BRB 8$ ; 0624
00000000G EF 03 90 00129 7$: MOVB #3, CRD$GB_BASE_SYSTEM ; 0631
00000000G EF 00000000G EF 9E 00130 MOVAB CRD$AL_UDA_0_HDWR_SPRT_TABLE, - ; 0632
CRD$GA_HDWR_SPRT_TABLE ;
50 01 D0 0013B 8$: MOVL #1, R0 ; 0633
04 0013E RET ;
50 D4 0013F 9$: CLRL R0 ; 0637
04 00141 RET ; 0638

```

; Routine Size: 322 bytes, Routine Base: CODE + 0165

```

: 0639 1 xSBTTL 'CRD$Done_General_Coms'
: 0640 1
: 0641 1 GLOBAL ROUTINE CRD$Done_General_Coms =
: 0642 1
: 0643 1 !++
: 0644 1 ! Functional Description:
: 0645 1 !
: 0646 1 ! Do anything here that needs to be done before the next set of DS commands is done.
: 0647 1 !
: 0648 1 ! Formal Parameters:
: 0649 1 !
: 0650 1 ! None
: 0651 1 !
: 0652 1 ! Side Effects:
: 0653 1 !
: 0654 1 ! None
: 0655 1 !
: 0656 1 ! Completion Codes:
: 0657 1 !
: 0658 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0659 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0660 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0661 1 ! --

```

```

; 0662 2 BEGIN      ! Routine CRD$Done_General_Coms
; 0663 2 IF (.CRD$GB_CRD_Debug) THEN
; P 0664 2 $CRD_Print($ASCIC('*** Done_General_Coms: Current = !XL!/''),
; 0665 2 .CRD$GL_Current_General_Com);
; 0666 2
; 0667 2 CRD$GL_Current_General_Com = 0; ! Reset the General_Com pointer
; 0668 3 RETURN(CRD$K_Repeat_Turing)
; 0669 3
; 0670 1 END;      ! Routine CRD$Done_General_Coms
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

72 65 6E 65 47 5F 65 6E 6F 44 20 2A 2A 2A 26 0009A P.AAK: .ASCII \&*** Done_General_Coms: Current = !XL!/\ ;
6E 65 72 72 75 43 20 3A 73 6D 6F 43 5F 6C 61 000A9 ;
2F 21 4C 58 21 20 3D 20 74 000B8 ;
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 .ENTRY CRD$DONE_GENERAL_COMS, Save nothing ; 0641
17 00000000G EF E9 00002 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0663
00000000G EF DD 00009 PUSHL CRD$GL_CURRENT_GENERAL_COM ; 0665
00000000' EF 9F 0000F PUSHAB P.AAK ;
01 DD 00015 PUSHL #1 ;
1A DD 00017 PUSHL #26 ;
00000000G FF 04 FB 00019 CALLS #4, aCRD$PRINT ;
00000000G EF D4 00020 1$: CLRL CRD$GL_CURRENT_GENERAL_COM ; 0667
50 02 D0 00026 MOVL #2, R0 ; 0668
04 00029 RET ; 0670
  
```

; Routine Size: 42 bytes, Routine Base: CODE + 02A7

```
; 0671 1 xSBTTL 'CRD$Level_4_Passed'
; 0672 1
; 0673 1 GLOBAL ROUTINE CRD$Level_4_Passed =
; 0674 1
; 0675 1 !**
; 0676 1 ! Functional Description:
; 0677 1 !
; 0678 1 ! Print PASSES for the level 4 diagnostic that ran previous to the Macro diagnostics.
; 0679 1 !
; 0680 1 ! Formal Parameters:
; 0681 1 !
; 0682 1 ! None
; 0683 1 !
; 0684 1 ! Side Effects:
; 0685 1 !
; 0686 1 ! None
; 0687 1 !
; 0688 1 ! Completion Codes:
; 0689 1 !
; 0690 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0691 1 ! --
```

ZZ-ENSAB-2.0 CRD\$Level_4_Passed I 14
 CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame 114 Sequence 383
 01-17 CRD\$Level_4_Passed 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (22) Page 33

```

; 0692 2 BEGIN ! Routine CRD$Level_4_Passed
; 0693 2 $CRD_Print (CRD$GT_Pass);
; 0694 2
; 0695 2 RETURN (CRD$K_Repeat_Turing);
; 0696 1 END; ! Routine CRD$Level_4_Passed

```

```

      0000 00000 .ENTRY CRD$LEVEL_4_PASSED, Save nothing ; 0673
00000000G EF 9F 00002 PUSHAB CRD$GT_PASS ; 0693
      01 DD 00008 PUSHL #1 ;
      1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT ;
      50 02 D0 00013 MOVL #2, R0 ; 0695
      04 00016 RET ; 0696

```

; Routine Size: 23 bytes, Routine Base: CODE + 02D1

```
; 0697 1 xSBTTL 'CRD$Load_AutoSizer'
; 0698 1
; 0699 1 GLOBAL ROUTINE CRD$Load_AutoSizer (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0700 1
; 0701 1 !+
; 0702 1 ! Functional Description:
; 0703 1 !
; 0704 1 ! Load the LOAD EVSBA command into the CLI buffer.
; 0705 1 !
; 0706 1 ! Formal Parameters:
; 0707 1 !
; 0708 1 ! CLI_Buffer_Length : The length of the CLI buffer.
; 0709 1 ! CLI_Buffer_Address : The address of the CLI buffer.
; 0710 1 !
; 0711 1 ! Side Effects:
; 0712 1 !
; 0713 1 ! None
; 0714 1 !
; 0715 1 ! Completion Codes:
; 0716 1 !
; 0717 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 0718 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 0719 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0720 1 !--
```

```

; 0721 2 BEGIN      ! Routine CRD$Load_AutoSizer
; 0722 2 MAP
; 0723 2 CRD$GT_DS_LOAD_Com : VECTOR [, BYTE];
; 0724 2
; 0725 2 MAP      ![[13]]
; 0726 2 CRD$GT_AutoSizer_Name : VECTOR [, BYTE];      ![[13]]
; 0727 2
; 0728 2 CH$COPY (      ![[13]]
; 0729 2 .CRD$GT_DS_LOAD_Com [0], CH$PTR (CRD$GT_DS_LOAD_Com [1]),      ![[13]]
; 0730 2 .CRD$GT_AutoSizer_Name [0], CH$PTR (CRD$GT_AutoSizer_Name [1]),      ![[13]]
; 0731 2 xC',
; 0732 2 .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 0733 2 );
; 0734 2
; 0735 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0736 2
; 0737 2 $CRD_Return_Length_Status (CRD$K_Success);
; 0738 1 END;      ! Routine CRD$Load_AutoSizer

```

```

.EXTRN CRD$GT_DS_LOAD_COM
.EXTRN CRD$GT_AUTOSIZER_NAME

```

```

03FC 00000 .ENTRY CRD$LOAD_AUTOSIZER, Save R2,R3,R4,R5,R6,R7,-; 0699
R8,R9
59 00000000G EF 9A 00002 MOVZBL CRD$GT_DS_LOAD_COM, R9 ; 0729
58 00000000G EF 9A 00009 MOVZBL CRD$GT_AUTOSIZER_NAME, R8 ; 0730
57 04 AC D0 00010 MOVL CLI_BUFFER_LENGTH, R7 ; 0732
56 08 AC D0 00014 MOVL CLI_BUFFER_ADDRESS, R6
57 20 00000000G EF 59 2C 00018 MOVCS R9, CRD$GT_DS_LOAD_COM+1, #32, R7, (R6) ;
66 00021 ;
10 18 00022 BGEQ 1$ ;
56 59 C0 00024 ADDL2 R9, R6 ;
57 59 C2 00027 SUBL2 R9, R7 ;
57 20 00000000G EF 58 2C 0002A MOVCS R8, CRD$GT_AUTOSIZER_NAME+1, #32, R7, (R6) ;
66 00033 ;
7E 04 AC 7D 00034 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0735
00000000G EF 02 FB 00038 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 0003F MOVL #5242881, R0 ; 0737
04 00046 RET ; 0738

```

; Routine Size: 71 bytes, Routine Base: CODE + 02E8

ZZ-ENSAB-2.0 CRD\$Load_General_Com

CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 Page 36

01-17 CRD\$Load_General_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (25)

```
: 0739 1 xSBTTL 'CRD$Load_General_Com'
: 0740 1
: 0741 1 GLOBAL ROUTINE CRD$Load_General_Com (Data_Max_Length, Data_Buffer_Address) =
: 0742 1
: 0743 1 !**
: 0744 1 ! Functional Description:
: 0745 1 !
: 0746 1 ! Load a general command into the CLI data buffer.
: 0747 1 !
: 0748 1 ! Formal Parameters:
: 0749 1 !
: 0750 1 ! Data_Max_Length      : The maximum length of the data to insert into the buffer.
: 0751 1 ! Data_Buffer_Address : The buffer where the data is to be inserted.
: 0752 1 !
: 0753 1 ! Side Effects:
: 0754 1 !
: 0755 1 ! None
: 0756 1 !
: 0757 1 ! Completion Codes:
: 0758 1 !
: 0759 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0760 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0761 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0762 1 ! --
```

```

; 0763 2 BEGIN      ! Routine CRD$Load_General_Com
; 0764 2  LOCAL
; 0765 2  Command_Ptr;
; 0766 2
; 0767 2  BIND
; 0768 2  Command_Output = $ASCIC ('The DS command now executing is: .!AD.!');
; 0769 2
; 0770 2  IF ((.Data_Max_Length LSS 1) OR (CRD$K_DS_Command_Size GTR .Data_Max_Length)) THEN
; 0771 3  BEGIN
; 0772 3  CRD$Internal_Error (CRD$K_Data_Length_Error, .Data_Max_Length, .Data_Buffer_Address);  ![[02]
; 0773 4  RETURN (CRD$K_Failure)
; 0774 2  END;
; 0775 2
; 0776 2  Command_Ptr = CRD$Get_General_Command ();
; 0777 2  ! Get a pointer to the next command
; 0778 2
; 0779 2  CH$MOVE (CRD$K_DS_Command_Size, .Command_Ptr, .Data_Buffer_Address);
; 0780 2  ! Move the new command to the buffer
; 0781 2
; 0782 2  CRD$Print_DS_Command (.Data_Max_Length, .Data_Buffer_Address);
; 0783 2
; 0784 2  $CRD_Return_Length_Status (CRD$K_Success);
; 0785 2  ! Return the size in the high word, success in the low word
; 0786 2
; 0787 1 END;      ! Routine CRD$Load_General_Com

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

64 6E 61 6D 6D 6F 63 20 53 44 20 65 68 54 28 000C1 P.AAL: .ASCII \The DS command now executing is: .!AD.!\ ;
20 67 6E 69 74 75 63 65 78 65 20 77 6F 6E 20 000D0 ;
    21 2E 44 41 21 2E 20 3A 73 69 000DF ;
    2F 000E9 .ASCII /\ ;

```

```

COMMAND_OUTPUT= P.AAL
.EXTRN CRD$INTERNAL_ERROR
.EXTRN CRD$GET_GENERAL_COMMAND

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

003C 00000 .ENTRY CRD$LOAD_GENERAL_COM, Save R2,R3,R4,R5 ; 0741
04 AC D5 00002 TSTL DATA_MAX_LENGTH ; 0770
    0A 15 00005 BLEQ 1$ ;
    00000050 8F 04 AC D1 00007 CMPL DATA_MAX_LENGTH, #80 ;
    10 18 0000F BGEQ 2$ ;
    7E 04 AC 7D 00011 1$: MOVQ DATA_MAX_LENGTH, -(SP) ; 0772
    7E 05 CE 00015 MNEGL #5, -(SP) ;
    00000000G EF 03 FB 00018 CALLS #3, CRD$INTERNAL_ERROR ;
    21 11 0001F BRB 3$ ; 0773
    00000000G EF 00 FB 00021 2$: CALLS #0, CRD$GET_GENERAL_COMMAND ; 0776
08 BC 60 0050 8F 28 00028 MOVC3 #80, (COMMAND_PTR), @DATA_BUFFER_ADDRESS ; 0779
    7E 04 AC 7D 0002F MOVQ DATA_MAX_LENGTH, -(SP) ; 0782
    00000000G EF 02 FB 00033 CALLS #2, CRD$PRINT_DS_COMMAND ;
    50 00500001 8F D0 0003A MOVL #5242881, R0 ; 0784

```

ZZ-ENSAB-2.0 CRD\$Load_General_Com N 14
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame N14 Sequence 388
01-17 CRD\$Load_General_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 Page 38 (26)

04 00041 RET ;
50 D4 00042 3\$: CLRL R0 ; 0787
04 00044 RET ;

; Routine Size: 69 bytes, Routine Base: CODE + 032F

```
: 0788 1 xSBTTL 'CRD$Load_Load_Com'
: 0789 1
: 0790 1 GLOBAL ROUTINE CRD$Load_Load_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0791 1
: 0792 1 !**
: 0793 1 ! Functional Description:
: 0794 1 !
: 0795 1 ! Load the next LOAD command into the CLI buffer.
: 0796 1 !
: 0797 1 ! Formal Parameters:
: 0798 1 !
: 0799 1 ! CLI_Buffer_Length : The length of the CLI buffer.
: 0800 1 ! CLI_Buffer_Address : The address of the CLI buffer.
: 0801 1 !
: 0802 1 ! Side Effects:
: 0803 1 !
: 0804 1 ! None
: 0805 1 !
: 0806 1 ! Completion Codes:
: 0807 1 !
: 0808 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0809 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0810 1 ! CRD$K_Repeat_Turing -> Cause the Turing_Machine routine to call itself recursively.
: 0811 1 ! --
```

```

: 0812 2 BEGIN      ! Routine CRD$Load_Load_Com
: 0813 2 MAP
: 0814 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0815 2
: 0816 2 MAP
: 0817 2   CRD$GT_DS_LOAD_Com : VECTOR [, BYTE];
: 0818 2
: 0819 2 BIND
: 0820 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
: 0821 2   : Hardware_Support_Vector;
: 0822 2
: 0823 2 BIND
: 0824 2   Diag_Name = (.Diag_Vector_Ptr [CRD$K_Diagnostic_Name]) : VECTOR [, BYTE];
: 0825 2
: 0826 2 CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
: 0827 2
: 0828 2 CH$COPY (
: 0829 2   .CRD$GT_DS_LOAD_Com [0], CH$PTR (CRD$GT_DS_LOAD_Com [1]),
: 0830 2   .Diag_Name [0], CH$PTR (Diag_Name [1]),
: 0831 2   'x',
: 0832 2   .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
: 0833 2 );
: 0834 2
: 0835 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0836 2
: 0837 2 $CRD_Return_Length_Status (CRD$K_Success);
: 0838 1 END;      ! Routine CRD$Load_Load_Com
  
```

```

      07FC 00000 .ENTRY CRD$LOAD_LOAD_COM, Save R2,R3,R4,R5,R6,R7,- ; 0790
      R8,R9,R10 ;
      50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0820
      58 0C B0 D0 00009 MOVL @12(R0), R8 ; 0824
      50 DD 0000D PUSHL R0 ; 0826
      00000000G EF 01 FB 0000F CALLS #1, CRD$PRINT_DDB ;
      5A 00000000G EF 9A 00016 MOVZBL CRD$GT_DS_LOAD_COM, R10 ; 0829
      59 68 9A 0001D MOVZBL (R8), R9 ; 0830
      57 04 AC D0 00020 MOVL CLI_BUFFER_LENGTH, R7 ; 0832
      56 08 AC D0 00024 MOVL CLI_BUFFER_ADDRESS, R6 ;
      57 20 00000000G EF 5A 2C 00028 MOVCS R10, CRD$GT_DS_LOAD_COM+1, #32, R7, (R6) ;
      66 00031 ;
      0D 18 00032 BGEQ 1$ ;
      56 5A C0 00034 ADDL2 R10, R6 ;
      57 5A C2 00037 SUBL2 R10, R7 ;
      57 20 01 A8 59 2C 0003A MOVCS R9, 1(R8), #32, R7, (R6) ;
      66 00040 ;
      7E 04 AC 7D 00041 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0835
      00000000G EF 02 FB 00045 CALLS #2, CRD$PRINT_DS_COMMAND ;
      50 00500001 8F D0 0004C MOVL #5242881, R0 ; 0837
      04 00053 RET ; 0838
  
```

; Routine Size: 84 bytes, Routine Base: CODE + 0374

ZZ-ENSAB-2.0 CRD\$Load_Load_Com D 15
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame D15 Sequence 391
01-17 CRD\$Load_Load_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (28) Page 41

```

: 0839 1 xSBTTL 'CRD$Load_Select_Com'
: 0840 1
: 0841 1 GLOBAL ROUTINE CRD$Load_Select_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0842 1
: 0843 1 !**
: 0844 1 ! Functional Description:
: 0845 1 !
: 0846 1 ! Load the next SELECT command into the CLI buffer.
: 0847 1 !
: 0848 1 ! Formal Parameters:
: 0849 1 !
: 0850 1 ! CLI_Buffer_Length : The length of the CLI buffer.
: 0851 1 ! CLI_Buffer_Address : The address of the CLI buffer.
: 0852 1 !
: 0853 1 ! Side Effects:
: 0854 1 !
: 0855 1 ! None
: 0856 1 !
: 0857 1 ! Completion Codes:
: 0858 1 !
: 0859 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 0860 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 0861 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0862 1 ! --

```

```

; 0863 2 BEGIN      ! Routine CRD$Load_Select_Com
; 0864 2 MAP
; 0865 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 0866 2
; 0867 2 MAP
; 0868 2   CRD$GT_DS_SELECT_Com   : VECTOR [, BYTE];
; 0869 2
; 0870 2 BIND
; 0871 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
; 0872 2   : Hardware_Support_Vector;
; 0873 2
; 0874 2 BIND
; 0875 2   Device_Name = (.Diag_Vector_Ptr [CRD$K_Device_Name]) : VECTOR [, BYTE];
; 0876 2
; 0877 2 IF (.Device_Name [0] EQL 0) THEN
; 0878 3   BEGIN
; 0879 3     !+
; 0880 3     ! Nothing to Select, so do nothing.
; 0881 3     !-
; 0882 4     RETURN (CRD$K_Repeat_Turing)
; 0883 3   END      ![[13]]
; 0884 2 ELSE      ![[13]]
; 0885 2     !+
; 0886 2     ! DS> Select <device_name>
; 0887 2     !-
; 0888 2     CH$COPY (
; 0889 2       .CRD$GT_DS_SELECT_Com [0], CH$PTR (CRD$GT_DS_SELECT_Com [1]),
; 0890 2       .Device_Name [0],          CH$PTR (Device_Name [1]),
; 0891 2       'C',
; 0892 2       .CLI_Buffer_Length,          CH$PTR (.CLI_Buffer_Address)
; 0893 2     );
; 0894 2
; 0895 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0896 2
; 0897 2   $CRD_Return_Length_Status (CRD$K_Success);
; 0898 1 END;      ! Routine CRD$Load_Select_Com

```

.EXTRN CRD\$GT_DS_SELECT_COM

```

07FC 00000 .ENTRY CRD$LOAD_SELECT_COM, Save R2,R3,R4,R5,R6,- ; 0841
R7,R8,R9,R10
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0871
50 0C A0 D0 00009 MOVL 12(R0), R0 ;
57 0C A0 D0 0000D MOVL 12(R0), R7 ; 0875
67 95 00011 TSTB (R7) ; 0877
04 12 00013 BNEQ 1$ ;
50 02 D0 00015 MOVL #2, R0 ; 0882
04 00018 RET ;
5A 00000000G EF 9A 00019 1$: MOVZBL CRD$GT_DS_SELECT_COM, R10 ; 0889
59 67 9A 00020 MOVZBL (R7), R9 ; 0890
58 04 AC D0 00023 MOVL CLI_BUFFER_LENGTH, R8 ; 0892
56 08 AC D0 00027 MOVL CLI_BUFFER_ADDRESS, R6 ;
58 20 00000000G EF 5A 2C 0002B MOVC5 R10, CRD$GT_DS_SELECT_COM+1, #32, R8, (R6) ;

```


ZZ-ENSAB-2.0 CRD\$Load_Select_Com G 15
 CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame G15 Sequence 394
 01-17 CRD\$Load_Select_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (30) Page 44

```

    66      00034
    0D 18 00035      BGEQ      2$
    56      5A C0 00037      ADDL2    R10, R6
    58      5A C2 0003A      SUBL2    R10, R8
58      20 01 A7      59 2C 0003D      MOVCS    R9, 1(R7), #32, R8, (R6)
    66      00043
    7E 04 AC 7D 00044 2$:      MOVQ      CLI_BUFFER_LENGTH, -(SP)
00000000G EF      02 FB 00048      CALLS    #2, CRD$PRINT_DS_COMMAND
    50 00500001 8F D0 0004F      MOVL      #5242881, R0
    04 00056      RET
                                ; 0898
                                ; 0895
                                ; 0897

```

; Routine Size: 87 bytes, Routine Base: CODE + 03C8

```
; 0899 1 xSBTTL 'CRD$Load_Set_Event_Com'
; 0900 1
; 0901 1 GLOBAL ROUTINE CRD$Load_Set_Event_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0902 1
; 0903 1 !**
; 0904 1 ! Functional Description:
; 0905 1 !
; 0906 1 ! Load the next SET EVENT command into the CLI buffer.
; 0907 1 !
; 0908 1 ! Formal Parameters:
; 0909 1 !
; 0910 1 ! CLI_Buffer_Length : The length of the CLI buffer.
; 0911 1 ! CLI_Buffer_Address : The address of the CLI buffer.
; 0912 1 !
; 0913 1 ! Side Effects:
; 0914 1 !
; 0915 1 ! None
; 0916 1 !
; 0917 1 ! Completion Codes:
; 0918 1 !
; 0919 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 0920 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 0921 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 0922 1 !--
```

```

: 0923 2 BEGIN      ! Routine CRD$Load_Set_Event_Com
: 0924 2 MAP
: 0925 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0926 2
: 0927 2 MAP
: 0928 2   CRD$GT_DS_SET_EVENT_Com : VECTOR [, BYTE];
: 0929 2
: 0930 2 BIND
: 0931 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
: 0932 2   : Hardware_Support_Vector;
: 0933 2
: 0934 2 BIND
: 0935 2   Set_Event_Args = (.Diag_Vector_Ptr [CRD$K_Set_Event_Args]) : VECTOR [, BYTE];
: 0936 2
: 0937 2 IF (.Set_Event_Args [0] EQL 0) THEN
: 0938 3   RETURN (CRD$K_Repeat_Turing)
: 0939 2 ELSE
: 0940 2   CH$COPY (
: 0941 2     .CRD$GT_DS_SET_EVENT_Com [0], CH$PTR (CRD$GT_DS_SET_EVENT_Com [1]),
: 0942 2     .Set_Event_Args [0],          CH$PTR (Set_Event_Args [1]),
: 0943 2     %C',
: 0944 2     .CLI_Buffer_Length,          CH$PTR (.CLI_Buffer_Address)
: 0945 2   );
: 0946 2
: 0947 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0948 2
: 0949 2   $CRD_Return_Length_Status (CRD$K_Success);
: 0950 1 END;      ! Routine CRD$Load_Set_Event_Com

```

.EXTRN CRD\$GT_DS_SET_EVENT_COM

```

07FC 00000 .ENTRY CRD$LOAD_SET_EVENT_COM, Save R2,R3,R4,R5,- ; 0901
R6,R7,R8,R9,R10
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0931
50 0C A0 D0 00009 MOVL 12(R0), R0 ;
57 08 A0 D0 0000D MOVL 8(R0), R7 ; 0935
67 95 00011 TSTB (R7) ; 0937
04 12 00013 BNEQ 1$ ;
50 02 D0 00015 MOVL #2, R0 ; 0938
04 00018 RET ;
5A 00000000G EF 9A 00019 1$: MOVZBL CRD$GT_DS_SET_EVENT_COM, R10 ; 0941
59 67 9A 00020 MOVZBL (R7), R9 ; 0942
58 04 AC D0 00023 MOVL CLI_BUFFER_LENGTH, R8 ; 0944
56 08 AC D0 00027 MOVL CLI_BUFFER_ADDRESS, R6 ;
58 20 00000000G EF 5A 2C 0002B MOVC5 R10, CRD$GT_DS_SET_EVENT_COM+1, #32, R8, - ;
66 00034 (R6) ;
0D 18 00035 BGEQ 2$ ;
56 5A C0 00037 ADDL2 R10, R6 ;
58 5A C2 0003A SUBL2 R10, R8 ;
58 20 01 A7 59 2C 0003D MOVC5 R9, 1(R7), #32, R8, (R6) ;
66 00043 ;
7E 04 AC 7D 00044 2$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0947
00000000G EF 02 FB 00048 CALLS #2, CRD$PRINT_DS_COMMAND ;

```

ZZ-ENSAB-2.0 CRD\$Load_Set_Event_Com J 15
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame J15 Sequence 397
01-17 CRD\$Load_Set_Event_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 Page 47 (32)

50 00500001 8F D0 0004F MOVL #5242881, R0 ; 0949
04 00056 RET ; 0950

; Routine Size: 87 bytes, Routine Base: CODE + 041F

```

: 0951 1 xSBITL 'CRD$Load_Set_Flags_Com'
: 0952 1
: 0953 1 GLOBAL ROUTINE CRD$Load_Set_Flags_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0954 1
: 0955 1 !**
: 0956 1 ! Functional Description:
: 0957 1 !
: 0958 1 ! Load the next SET FLAGS command into the CLI buffer.
: 0959 1 !
: 0960 1 ! Formal Parameters:
: 0961 1 !
: 0962 1 ! CLI_Buffer_Length : The length of the CLI buffer.
: 0963 1 ! CLI_Buffer_Address : The address of the CLI buffer.
: 0964 1 !
: 0965 1 ! Side Effects:
: 0966 1 !
: 0967 1 ! None
: 0968 1 !
: 0969 1 ! Completion Codes:
: 0970 1 !
: 0971 1 ! CRD$K Failure => Return failure to the CRD$Turing_Machine routine.
: 0972 1 ! CRD$K Success => Return success to the CRD$Turing_Machine routine.
: 0973 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 0974 1 ! --

```

```

: 0975 2 BEGIN      ! Routine CRD$Load_Set_Flags_Com
: 0976 2 MAP
: 0977 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
: 0978 2
: 0979 2 MAP
: 0980 2   CRD$GT_DS_SET_FLAGS_Com : VECTOR [, BYTE];
: 0981 2
: 0982 2 BIND
: 0983 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
: 0984 2   : Hardware_Support_Vector;
: 0985 2
: 0986 2 BIND
: 0987 2   Set_Flags_Args = (.Diag_Vector_Ptr [CRD$K_Set_Flags_Args]) : VECTOR [, BYTE];
: 0988 2
: 0989 2 IF (.Set_Flags_Args [0] EQL 0) THEN
: 0990 3   RETURN (CRD$K_Repeat_Turing)
: 0991 2 ELSE
: 0992 2   CH$COPY (
: 0993 2     .CRD$GT_DS_SET_FLAGS_Com [0], CH$PTR (CRD$GT_DS_SET_FLAGS_Com [1]),
: 0994 2     .Set_Flags_Args [0],          CH$PTR (Set_Flags_Args [1]),
: 0995 2     %C',
: 0996 2     .CLI_Buffer_Length,          CH$PTR (.CLI_Buffer_Address)
: 0997 2   );
: 0998 2
: 0999 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 1000 2
: 1001 2   $CRD_Return_Length_Status (CRD$K_Success);
: 1002 1 END;      ! Routine CRD$Load_Set_Flags_Com

```

```

07FC 00000 .ENTRY CRD$LOAD_SET_FLAGS_COM, Save R2,R3,R4,R5,- ; 0953
R6,R7,R8,R9,R10 ;
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 0983
50 0C A0 D0 00009 MOVL 12(R0), R0 ;
57 04 A0 D0 0000D MOVL 4(R0), R7 ; 0987
67 95 00011 TSTB (R7) ; 0989
04 12 00013 BNEQ 1$ ;
50 02 D0 00015 MOVL #2, R0 ; 0990
04 00018 RET ;
5A 00000000G EF 9A 00019 1$: MOVZBL CRD$GT_DS_SET_FLAGS_COM, R10 ; 0993
59 67 9A 00020 MOVZBL (R7), R9 ; 0994
58 04 AC D0 00023 MOVL CLI_BUFFER_LENGTH, R8 ; 0996
56 08 AC D0 00027 MOVL CLI_BUFFER_ADDRESS, R6 ;
58 20 00000000G EF 5A 2C 0002B MOVCS R10, CRD$GT_DS_SET_FLAGS_COM+1, #32, R8, ;
66 00034 (R6) ;
0D 18 00035 BGEQ 2$ ;
56 5A C0 00037 ADDL2 R10, R6 ;
58 5A C2 0003A SUBL2 R10, R8 ;
58 20 01 A7 59 2C 0003D MOVCS R9, 1(R7), #32, R8, (R6) ;
66 00043 ;
7E 04 AC 7D 00044 2$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0999
00000000G EF 02 FB 00048 CALLS #2, CRD$PRINT_DS_COMMAND ;

```

ZZ-ENSAB-2.0 CRD\$Load_Set_Flags_Com M 15
CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame M15 Sequence 400
01-17 CRD\$Load_Set_Flags_Com 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (34) Page 50

50 00500001 8F D0 0004F MOVL #5242881, R0 ; 1001
04 00056 RET ; 1002

; Routine Size: 87 bytes, Routine Base: CODE + 0476

```
: 1003 1 xSBTTL 'CRD$Load_Start_Com'
: 1004 1
: 1005 1 GLOBAL ROUTINE CRD$Load_Start_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
: 1006 1
: 1007 1 !*+
: 1008 1 ! Functional Description:
: 1009 1 !
: 1010 1 ! Load the next START command into the CLI buffer.
: 1011 1 !
: 1012 1 ! Formal Parameters:
: 1013 1 !
: 1014 1 ! CLI_Buffer_Length : The length of the CLI buffer.
: 1015 1 ! CLI_Buffer_Address : The address of the CLI buffer.
: 1016 1 !
: 1017 1 ! Side Effects:
: 1018 1 !
: 1019 1 ! None
: 1020 1 !
: 1021 1 ! Completion Codes:
: 1022 1 !
: 1023 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
: 1024 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
: 1025 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
: 1026 1 !--
```



```

; 1027 2 BEGIN ! Routine CRD$Load_Start_Com
; 1028 2 MAP
; 1029 2 CRD$GT_DS_START_Com : VECTOR [, BYTE];
; 1030 2
; 1031 2 MAP
; 1032 2 CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 1033 2
; 1034 2 BIND
; 1035 3 Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
; 1036 2 : Hardware_Support_Vector;
; 1037 2
; 1038 2 BIND
; 1039 2 Start_Qualifiers = (.Diag_Vector_Ptr [CRD$K_Start_Qualifiers]) : VECTOR [, BYTE];
; 1040 2
; 1041 2 CH$COPY (
; 1042 2 .CRD$GT_DS_START_Com [0], CH$PTR (CRD$GT_DS_START_Com [1]),
; 1043 2 .Start_Qualifiers [0], CH$PTR (Start_Qualifiers [1]),
; 1044 2 xC',
; 1045 2 .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 1046 2 );
; 1047 2
; 1048 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 1049 2
; 1050 2 $CRD_Return_Length_Status (CRD$K_Success);
; 1051 1 END; ! Routine CRD$Load_Start_Com

```

.EXTRN CRD\$GT_DS_START_COM

```

07FC 00000 .ENTRY CRD$LOAD_START_COM, Save R2,R3,R4,R5,R6,R7,-; 1005
R8,R9,R10
50 00000000G EF D0 00002 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 1035
50 0C A0 D0 00009 MOVL 12(R0), R0 ;
58 10 A0 D0 0000D MOVL 16(R0), R8 ; 1039
5A 00000000G EF 9A 00011 MOVZBL CRD$GT_DS_START_COM, R10 ; 1042
59 68 9A 00018 MOVZBL (R8), R9 ; 1043
57 04 AC D0 0001B MOVL CLI_BUFFER_LENGTH, R7 ; 1045
56 08 AC D0 0001F MOVL CLI_BUFFER_ADDRESS, R6 ;
57 20 00000000G EF 5A 2C 00023 MOVC5 R10, CRD$GT_DS_START_COM+1, #32, R7, (R6) ;
66 0002C ;
0D 18 0002D BGEQ 1$ ;
56 5A C0 0002F ADDL2 R10, R6 ;
57 5A C2 00032 SUBL2 R10, R7 ;
57 20 01 A8 59 2C 00035 MOVC5 R9, 1(R8), #32, R7, (R6) ;
66 0003B ;
7E 04 AC 7D 0003C 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 1048
00000000G EF 02 FB 00040 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00047 MOVL #5242881, R0 ; 1050
04 0004E RET ; 1051

```

; Routine Size: 79 bytes, Routine Base: CODE + 04CD

```

; 1052 1 xSBTTL 'CRD$Set_Up_Diagnostic'
; 1053 1
; 1054 1 GLOBAL ROUTINE CRD$Set_Up_Diagnostic =      ![[16]
; 1055 1 !++
; 1056 1 ! Functional Description:      ! V
; 1057 1 !
; 1058 1 ! Print the testing started message, check to see if the device was attached; if not,
; 1059 1 ! print an error message and go to advance diagnostic; if so, then repeat_turing.
; 1060 1 !
; 1061 1 ! Formal Parameters:
; 1062 1 !
; 1063 1 ! None
; 1064 1 !
; 1065 1 ! Side Effects:
; 1066 1 !
; 1067 1 ! None
; 1068 1 !
; 1069 1 ! Completion Codes:
; 1070 1 !
; 1071 1 ! CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 1072 1 ! CRD$K_Success => Return success to the CRD$Turing_Machine routine.
; 1073 1 ! CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 1074 1 ! --

```

```

; 1075 2 BEGIN      ! Routine CRD$Set_Up_Diagnostic
; 1076 2 MAP
; 1077 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 1078 2
; 1079 2 BIND
; 1080 3   Diag_Vector_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Auto_Support_Entry])
; 1081 2   : Hardware_Support_Vector;
; 1082 2
; 1083 2 IF (.CRD$GB_CRD_Debug) THEN
; 1084 2   $CRD_Print($ASCII('*** Set_Up_Diagnostic:!/'));
; 1085 2
; 1086 2 CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
; 1087 2
; 1088 2 !+
; 1089 2 ! Now output the "TESTING STARTED" message. This must be done here because this message must be
; 1090 2 ! output regardless of whether or not the diagnostic is run.
; 1091 2 !
; 1092 2 ! Testing_Started : Diag_Vector_Ptr [CRD$K_Test_Start_Text]
; 1093 2 ! RunTime       : Diag_Vector_Ptr [CRD$K_RunTime]
; 1094 2 !
; 1095 2 ! If the DDB_Status_Check_Dev_Type bit is True, then the device type must be extracted from the
; 1096 2 ! PTable and printed instead of the device-type field in the Test_Start_Text.
; 1097 2 !+
; 1098 2
; P 1099 2 $CRD_Concat (CRD$GA_CRD_Message_Buffer, CRD$K_CRD_Message_Buffer_Len,
; 1100 2   CRD$GT_Testing_Device, CRD$GT_Testing_Started, CRD$GT_RunTime);
; 1101 2   ! Concatenate the messages (i.e., Ascic strings) so that only one
; 1102 2   ! print statement is needed to output the testing started message.
; 1103 2
; 1104 2
; 1105 3 IF (
; 1106 4   (.CRD$GA_Current_Diagnostic [CRD$K_DDB_PTable_Entry] NEQ 0)
; 1107 3 AND
; 1108 4   (.CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type>)
; 1109 2 ) THEN
; 1110 3 BEGIN
; 1111 3 !+
; 1112 3 ! There is a PTable for this device, and we must replace the device type field in the
; 1113 3 ! Test_Start_Text with the device type that is in the Ptable. This is mainly because the
; 1114 3 ! 11/730,725 packaged systems may come with either an RL02 as a diagnostic disk or with an
; 1115 3 ! R80 diagnostic disk. Because it can be either one, I have to print the correct one when
; 1116 3 ! I print the Testing_Started message.
; 1117 3 !-
; 1118 3
; 1119 3 LOCAL
; 1120 3   PTable_Device_Type_Length;
; 1121 3   ! The length of the Device_Type string in the PTable.
; 1122 3
; 1123 3 LOCAL
; 1124 3   Temp_Test_Start_Text : VECTOR [CRD$K_CRD_Message_Buffer_Len, BYTE];
; 1125 3   ! Temporarily store the Test_Start_Text from the Hardware_Support_Table in
; 1126 3   ! here so that it can be modified (it cannot be modified directly in the
; 1127 3   ! Table because the Table is in a write-protected Psect.
; 1128 3
; 1129 3 BIND

```

```

; 1130 3 Ptable_Ptr = (.CRD$GA_Current_Diagnostic [CRD$K_DDB_PTable_Entry]);
; 1131 3
; 1132 3 BIND
; 1133 3 Ptable = (Ptable_Ptr) : $DS_HPO_DECL ();
; 1134 3
; 1135 3 BIND
; 1136 3 PTable_Device_Type = (PTable [HP$T_Type]) : VECTOR [, BYTE];
; 1137 3 ! This is the ASCII Device Type string in the ptable
; 1138 3
; 1139 3 BIND
; 1140 3 Test_Start_Text = (.Diag_Vector_Ptr [CRD$K_Test_Start_Text]) : VECTOR [, BYTE];
; 1141 3 ! Reference the actual Test_Start_Text as a vector of bytes.
; 1142 3
; 1143 3 BUILTIN
; 1144 3 MOVC3;
; 1145 3
; 1146 3 MOVC3 (xREF (.Test_Start_Text [0] + 1), Test_Start_Text, Temp_Test_Start_Text);
; 1147 3 ! Move the actual Test_Start_Text Ascii string to the Temp_Test_Start_Text
; 1148 3 ! buffer (i.e., the whole string - e.g., 'R80 DQA0'). Use xREF
; 1149 3 ! because MovC3 requires an address. Use + 1 so that the count byte itself
; 1150 3 ! is included in the transfer.
; 1151 3
; 1152 3 PTable_Device_Type_Length = .PTable_Device_Type [0];
; 1153 3 ! Get the length of the PTable's device type string (i.e., 4 for 'RL02').
; 1154 3
; 1155 3 MOVC3 (PTable_Device_Type_Length, PTable_Device_Type [1], Temp_Test_Start_Text [1]);
; 1156 3 ! Now overwrite whatever was there in the Test_Start_Text with the new device
; 1157 3 ! type string from the PTable. Now we can use Temp_Test_Start_Text as the new
; 1158 3 ! actual Test_Start_Text. Using the example above, overwrite the 'R80' with
; 1159 3 ! the 'RL02' from the PTable.
; 1160 3
; P 1161 3 $CRD_Print (CRD$GA_CRD_Message_Buffer,
; P 1162 3 Temp_Test_Start_Text,
; 1163 4 .Diag_Vector_Ptr [CRD$K_RunTime])
; 1164 4 ! Use the Temp_Test_Start_Text buffer instead of the actual Test_Start_Text.
; 1165 4 ! as was used below.
; 1166 3 END
; 1167 2 ELSE
; 1168 3 BEGIN
; P 1169 3 $CRD_Print (CRD$GA_CRD_Message_Buffer,
; P 1170 3 .Diag_Vector_Ptr [CRD$K_Test_Start_Text],
; 1171 4 .Diag_Vector_Ptr [CRD$K_RunTime])
; 1172 4 ! Use the actual Test_Start_Text string
; 1173 2 END;
; 1174 2
; 1175 2 !+
; 1176 2 ! Now we must check the diagnostic to see if there is a PTable present for this device. If not,
; 1177 2 ! print a message saying that testing cannot be done on this device. If there is a Ptable, carry on.
; 1178 2 !-
; 1179 2
; 1180 2 IF (.CRD$GA_Current_Diagnostic [CRD$K_DDB_PTable_Entry] EQL 0) THEN
; 1181 3 BEGIN
; 1182 3 $CRD_Print (CRD$GT_Dev_Unavailable);
; 1183 3 ! Print a message about the device being unavailable for testing
; 1184 3

```

```

; 1185 3 CRD$GL_Current_State = CRD$K_State_Advance_Diagnostic;
; 1186 3 ! Skip to the next diagnostic in the list of DDBs.
; 1187 3
; 1188 3 CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> - True;
; 1189 3 ! We did print a message
; 1190 3
; 1191 3 CRD$GA_Current_Diagnostic [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> False;
; 1192 3 ! Testing wasn't completed (wasn't even started) on this device.
; 1193 2 END;
; 1194 2 ! ^
; 1195 2 IF (.CRD$GB_CRD_Debug) THEN
; 1196 2 $CRD_Print($ASCII('Set_Up_Diagnostic: at the end:!/'));
; 1197 2
; 1198 2 CRD$Print_DDB (.CRD$GA_Current_Diagnostic);
; 1199 2
; 1200 2 RETURN (CRD$K_Repeat_Turing);
; 1201 1 END; ! Routine CRD$Set_Up_Diagnostic ![[16]
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

61 69 44 5F 70 55 5F 74 65 53 20 2A 2A 2A 18 000EA P.AAM: .ASCII <24>\*** Set_Up_Diagnostic:!/ \ ;
2F 21 3A 63 69 74 73 6F 6E 67 000F9
73 6F 6E 67 61 69 44 5F 70 55 5F 74 65 53 20 00103 P.AAN: .ASCII \ Set_Up_Diagnostic: at the end:!/ \ ;
64 6E 65 20 65 68 74 20 74 61 20 3A 63 69 74 00112
2F 21 3A 00121 ;
  
```

LENGTH= 132

```

.EXTRN CRD$GA_CRD_MESSAGE_BUFFER
.EXTRN CRD$GT_TESTING_DEVICE
.EXTRN CRD$GT_TESTING_STARTED
.EXTRN CRD$GT_RUNTIME, CRD$GT_DEV_UNAVAILABLE
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

OFFC 00000 .ENTRY CRD$SET_UP_DIAGNOSTIC, Save R2,R3,R4,R5,R6,-; 1054
R7,R8,R9,R10,R11
5E FF7C CE 9E 00002 MOVAB -132(SP), SP
50 0000000G F D0 00007 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 1080
56 0C A0 D0 0000E MOVL 12(R0), R6
11 0000000G EF E9 00012 BLBC CRD$GB_CRD_DEBUG, 1$ ; 1083
00000000' EF 9F 00019 PUSHAB P.AAM ; 1084
01 DD 0001F PUSHL #1 ;
1A DD 00021 PUSHL #26 ;
00000000G FF 03 FB 00023 CALLS #3, @CRD$PRINT ;
00000000G EF DD 0002A 1$: PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 1086
00000000G EF 01 FB 00030 CALLS #1, CRD$PRINT_DDB ;
0084 8F 20 6E 00 2C 00037 MOVC5 #0, (SP), #32, #132, ADDRESS ; 1100
00000000G EF 0003E ;
50 00000000G EF 9A 00043 MOVZBL STRING, R0 ;
51 00000000G EF 9A 0004A MOVZBL STRING, R1 ;
50 51 C0 00051 ADDL2 R1, R0 ;
00000000G EF 50 00000000G EF 81 00054 ADDB3 STRING, R0, ADDRESS ;
5B 00000000G EF 9A 00060 MOVZBL STRING, R11 ;
  
```

```

5A 00000000G EF 9A 00067 MOVZBL STRING, R10 ;
59 00000000G EF 9A 0006E MOVZBL STRING, R9 ;
58 83 8F 9A 00075 MOVZBL #131, R8 ;
57 00000000G EF 9E 00079 MOVAB ADDRESS+1, R7 ;
58 20 00000000G EF 5B 2C 00080 MOVC5 R11, CRD$GT_TESTING_DEVICE+1, #32, R8, (R7) ;
67 00089 ;
22 18 0008A BGEQ 2$ ;
57 5B C0 0008C ADDL2 R11, R7 ;
58 5B C2 0008F SUBL2 R11, R8 ;
58 20 00000000G EF 5A 2C 00092 MOVC5 R10, CRD$GT_TESTING_STARTED+1, #32, R8, - ;
67 0009B (R7) ;
10 18 0009C BGEQ 2$ ;
57 5A C0 0009E ADDL2 R10, R7 ;
58 5A C2 000A1 SUBL2 R10, R8 ;
58 20 00000000G EF 59 2C 000A4 MOVC5 R9, CRD$GT_RUNTIME+1, #32, R8, (R7) ;
67 000AD ;
50 00000000G EF D0 000AE 2$: MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 1106
08 A0 D5 000B5 TSTL 8(R0) ;
29 13 000B8 BEQL 3$ ;
24 14 A0 03 E1 000BA BBC #3, 20(R0), 3$ ; 1108
50 08 A0 D0 000BF MOVL 8(R0), R0 ; 1136
57 26 A0 9E 000C3 MOVAB 38(R0), R7 ;
50 14 B6 9A 000C7 MOVZBL @20(R6), R0 ; 1146
50 D6 000CB INCL R0 ;
6E 14 B6 50 28 000CD MOVC3 R0, @20(R6), TEMP_TEST_START_TEXT ;
50 67 9A 000D2 MOVZBL (R7), PTABLE_DEVICE_TYPE_LENGTH ; 1152
01 AE 01 A7 50 28 000D5 MOVC3 PTABLE_DEVICE_TYPE_LENGTH, 1(R7), - ; 1155
TEMP_TEST_START_TEXT+1 ;
18 A6 DD 000DB PUSHL 24(R6) ; 1163
04 AE 9F 000DE PUSHAB TEMP_TEST_START_TEXT ;
04 11 000E1 BRB 4$ ;
7E 14 A6 7D 000E3 3$: MOVQ 20(R6), -(SP) ; 1171
00000000G EF 9F 000E7 4$: PUSHAB CRD$GA_CRD_MESSAGE_BUFFER ;
01 DD 000ED PUSHL #1 ;
1A DD 000EF PUSHL #26 ;
00000000G FF 05 FB 000F1 CALLS #5, @CRD$PRINT ;
50 00000000G EF D0 000F8 MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 1180
08 A0 D5 000FF TSTL 8(R0) ;
28 12 00102 BNEQ 5$ ;
00000000G EF 9F 00104 PUSHAB CRD$GT_DEV_UNAVAILABLE ; 1182
01 DD 0010A PUSHL #1 ;
1A DD 0010C PUSHL #26 ;
00000000G FF 03 FB 0010E CALLS #3, @CRD$PRINT ;
00000000G EF 19 D0 00115 MOVL #25, CRD$GL_CURRENT_STATE ; 1185
50 00000000G EF D0 0011C MOVL CRD$GA_CURRENT_DIAGNOSTIC, R0 ; 1188
14 A0 40 8F 88 00123 BISB2 #64, 20(R0) ;
14 A0 20 8A 00128 BICB2 #32, 20(R0) ; 1191
11 00000000G EF E9 0012C 5$: BLBC CRD$GB_CRD_DEBUG, 6$ ; 1195
00000000' EF 9F 00133 PUSHAB P.AAN ; 1196
01 DD 00139 PUSHL #1 ;
1A DD 0013B PUSHL #26 ;
00000000G FF 03 FB 0013D CALLS #3, @CRD$PRINT ;
00000000G EF DD 00144 6$: PUSHL CRD$GA_CURRENT_DIAGNOSTIC ; 1198
00000000G EF 01 FB 0014A CALLS #1, CRD$PRINT_DDB ;
50 02 D0 00151 MOVL #2, R0 ; 1200

```

ZZ-ENSAB-2.0 CRD\$Set_Up_Diagnostic H 16
CRD\$Set_Up_Diagnostic 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 2 Frame H16 Sequence 408
01-17 CRD\$Set_Up_Diagnostic 3-Jan-1985 17:02:00 [DS.CRD.V020]CRD\$Set_Up_Diagnostic.B32;1 Page 58 (38)

04 00154 RET ; 1201

; Routine Size: 341 bytes, Routine Base: CODE + 051C

```

; 1202 1 xSBTTL 'CRD$Start_AutoSizer'
; 1203 1
; 1204 1 GLOBAL ROUTINE CRD$Start_AutoSizer (CLI_Buffer_Length, CLI_Buffer_Address) =
; 1205 1
; 1206 1 !**
; 1207 1 | Functional Description:
; 1208 1 |
; 1209 1 | Load the START command for the AutoSizer.
; 1210 1 |
; 1211 1 | Formal Parameters:
; 1212 1 |
; 1213 1 | CLI_Buffer_Length : The length of the CLI buffer.
; 1214 1 | CLI_Buffer_Address : The address of the CLI buffer.
; 1215 1 |
; 1216 1 | Side Effects:
; 1217 1 |
; 1218 1 | None
; 1219 1 |
; 1220 1 | Completion Codes:
; 1221 1 |
; 1222 1 | CRD$K_Failure => Return failure to the CRD$Turing_Machine routine.
; 1223 1 | CRD$K_Success -> Return success to the CRD$Turing_Machine routine.
; 1224 1 | CRD$K_Repeat_Turing => Cause the Turing_Machine routine to call itself recursively.
; 1225 1 | --

```



```

; 1226 2 BEGIN      ! Routine CRD$Start_AutoSizer
; 1227 2 MAP
; 1228 2   CRD$GA_Current_Diagnostic : REF Device_Data_Block_Structure;
; 1229 2
; 1230 2 MAP
; 1231 2   CRD$GT_DS_START_Com : VECTOR [, BYTE];
; 1232 2
; 1233 2   CH$COPY (      ![[13]
; 1234 2     .CRD$GT_DS_START_Com [0], CH$PTR (CRD$GT_DS_START_Com [1]),      ![[13]
; 1235 2     'C' ,      ![[13]
; 1236 2     .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 1237 2   );
; 1238 2
; 1239 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 1240 2
; 1241 2   $CRD_Return_Length_Status (CRD$K_Success);
; 1242 1 END;      ! Routine CRD$Start_AutoSizer

```

```

      003C 00000 .ENTRY CRD$START_AUTOSIZER, Save R2,R3,R4,R5 ; 1204
04 50 00000000G EF 9A 00002 MOVZBL CRD$GT_DS_START_COM, R0 ; 1234
08 AC 20 00000000G EF 50 2C 00009 MOVCS R0, CRD$GT_DS_START_COM+1, #32, - ; 1236
BC 00013 CLI BUFFER_LENGTH, @CLI_BUFFER_ADDRESS ;
7E 04 AC 7D 00015 MOVQ CLI_BUFFER_LENGTH, -(SP) ; 1239
00000000G EF 02 FB 00019 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00020 MOVL #5242881, R0 ; 1241
04 00027 RET ; 1242

```

; Routine Size: 40 bytes, Routine Base: CODE + 0671

Symbol	Type	Defined	Referenced	...
RoutForm 901	944a=	947.		
RoutForm 953	996a=	999.		
RoutForm 1005	1045a=	1048.		
RoutForm 1204	1236a=	1239.		
CLI_BUFFER_LENGTH RoutForm	416	457.	460.	
RoutForm 699	732.	735.		
RoutForm 790	832.	835.		
RoutForm 841	892.	895.		
RoutForm 901	944.	947.		
RoutForm 953	996.	999.		
RoutForm 1005	1045.	1048.		
RoutForm 1204	1236.	1239.		
COMMAND_OUTPUT Bind	768			
COMMAND_PTR Local	765	776=	779a.	
CRD\$ADVANCE_DIAGNOSTIC GlobRout	230	Lib01e	160f	
CRD\$ADVANCE_GENERAL COM GlobRout	293	Lib01e	163f	
CRD\$AL_IDC_HDWR SPRT TABLE External	Lib01	555a		
CRD\$AL_LESI_HDWR SPRT TABLE External	Lib01	568a		
CRD\$AL_UDA_0_HDWR SPRT TABLE External	Lib01	612a	632a	
CRD\$AL_UDA_1_HDWR SPRT TABLE External	Lib01	601a		
CRD\$AL_UDA_2_HDWR SPRT TABLE External	Lib01	623a		
CRD\$AL_UDA_3_HDWR SPRT TABLE External	Lib01	589a		
CRD\$ASSIGN_PTABLE_PTRS GlobRout	341	Lib01e	166f	
CRD\$AUTOSIZER SET_FLAGS GlobRout	416	Lib01e	169f	
CRD\$BUILD_DDBS ExtRout	Lib01	380c		
CRD\$DETERMINE_BASE_SYSTEM GlobRout	470	171f	373c	
CRD\$DONE_GENERAL_COMS GlobRout	641	Lib01e	174f	
CRD\$FIND_PTABLE ExtRout	Lib01	395c	543c	544c 545c 546c 547c 548c
CRD\$GA_CRD_MESSAGE_BUFFER External	Lib01	1100a	1163a	1171a
CRD\$GA_CURRENT_DIAGNOSTIC External	Lib01	255m	261a.	267. 274= 274a. 279. 286.
Map 442				
Map 814	820a.	826.		
Map 865	871a.			
Map 925	931a.			
Map 977	983a.			
Map 1032	1035a.			
Map 1077	1080a.	1086.	1106a.	1108a. 1130a. 1180a. 1188a= 1191a= 1198.
Map 1228				
CRD\$GA_FIRST_DIAGNOSTIC External	Lib01	254m	286.	382. 410.
CRD\$GA_HDWR_SPRT TABLE External	Lib01	541=	555=	568= 589= 601= 612= 623= 632=
CRD\$GB_BASE_SYSTEM External	Lib01	540=	554=	567= 588= 600= 611= 622= 631=
CRD\$GB_CRD_DEBUG External	Lib01	264.	276.	317. 663. 1083. 1195.
CRD\$GET_GENERAL_COMMAND ExtRout	Lib01	776c		
CRD\$GL_CURRENT_GENERAL_COM External	Lib01	319.	321.	334= 334. 665. 667=
CRD\$GL_CURRENT_STATE External	Lib01	287=	327=	1185=
CRD\$GT_AUTOSIZER_NAME External	Lib01	726m	730.	
CRD\$GT_AUTOSIZER_SET_FLAGS External	Lib01	448m	450.	455.
CRD\$GT_DEV_UNAVAILABLE External	Lib01	1182a		
CRD\$GT_DS_LOAD_COM External	Lib01	723m	729.	829.
Map 817	829.			
CRD\$GT_DS_SELECT_COM External	Lib01	868m	889.	
CRD\$GT_DS_SET_EVENT_COM External	Lib01	928m	941.	
CRD\$GT_DS_SET_FLAGS_COM External	Lib01	445m	454.	993.

Symbol	Type	Defined	Referenced	...
Map 980 993.				
CRD\$GT_DS_START_COM	External Lib01	1029m 1042.	1234.	
Map 1231 1234.				
CRD\$GT_PASS	External Lib01	262a 693a		
CRD\$GT_RUNTIME	External Lib01	1100a 1100.		
CRD\$GT_TESTING_DEVICE	External Lib01	1100a 1100.		
CRD\$GT_TESTING_STARTED	External Lib01	1100a 1100.		
CRD\$INTERNAL_ERROR	ExtRout Lib01	772c		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	211		
CRD\$K_ACTION_RANGE_ERROR	Literal	211		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	211		
CRD\$K_ADVANCE_GENERAL_COM	Literal	211		
CRD\$K_ADVANCE_STATE	Literal	211		
CRD\$K_ALLOCATION_ERROR	Literal	211		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	211		
CRD\$K_AUTOSIZER_ERROR	Literal	211		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	211		
CRD\$K_BAD_ACTION_NUMBER	Literal	211		
CRD\$K_BAD_TYPECODE_ERROR	Literal	211		
CRD\$K_BASE_SYSTEM_IDC	Literal	211 554		
CRD\$K_BASE_SYSTEM_LE	Literal	211 567		
CRD\$K_BASE_SYSTEM_NULL	Literal	211 540		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	211 611	631	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	211 600		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	211 622		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	211 588		
CRD\$K_CRD_INITIALIZATION	Literal	211		
CRD\$K_CRD_MESSAGE_BUFFER_LEN	Literal Lib01	1100 1124		
CRD\$K_CREATE_HST	Literal	211		
CRD\$K_DATA_LENGTH_ERROR	Literal	211 772		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	211 398	820 871 931 983 1035 1080	
CRD\$K_DDB_BLINK	Literal	211		
CRD\$K_DDB_FLINK	Literal	211 274 407		
CRD\$K_DDB_LAST_ENTRY	Literal	211		
CRD\$K_DDB_MEMORY_SIZE	Literal	211		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	211		
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	211		
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	211		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	211		
CRD\$K_DDB_PTABLE_ENTRY	Literal	211 395	1106 1130 1180	
CRD\$K_DDB_STATUS	Literal	211 261 1108	1188 1191	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	211		
CRD\$K_DEVICE_NAME	Literal	211 401 875		
CRD\$K_DIAGNOSTIC_ERROR	Literal	211		
CRD\$K_DIAGNOSTIC_NAME	Literal	211 824		
CRD\$K_DONE_GENERAL_COMS	Literal	211		
CRD\$K_DO_NOTHING	Literal	211		
CRD\$K_DS_COMMAND_SIZE	Literal Lib01	462 737 770 779 784 837 897 949 1001 1050		
1241				
CRD\$K_DUMMY_10	Literal	211		
CRD\$K_DUMMY_11	Literal	211		
CRD\$K_DUMMY_12	Literal	211		
CRD\$K_DUMMY_13	Literal	211		

Symbol	Type	Defined	Referenced	...
CRD\$K_DUMMY_3	Literal	211		
CRD\$K_DUMMY_4	Literal	211		
CRD\$K_DUMMY_5	Literal	211		
CRD\$K_DUMMY_6	Literal	211		
CRD\$K_DUMMY_7	Literal	211		
CRD\$K_DUMMY_8	Literal	211		
CRD\$K_DUMMY_9	Literal	211		
CRD\$K_EXIT_CRD	Literal	211		
CRD\$K_FAILURE	Literal	Lib01	637	773
CRD\$K_HOOK_POINT	Literal	211		
CRD\$K_HS_INTERNAL_ERROR	Literal	211		
CRD\$K_IDC_EVDLB	Literal	211		
CRD\$K_IDC_EVDLC	Literal	211		
CRD\$K_IDC_EVDLD	Literal	211		
CRD\$K_IDC_EVRAD_0	Literal	211		
CRD\$K_IDC_EVRAD_1	Literal	211		
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	211		
CRD\$K_INTERNAL_ERROR	Literal	211		
CRD\$K_LAST_ACTION_ROUTINE	Literal	211		
CRD\$K_LAST_ENTRY	Literal	211		
CRD\$K_LAST_FUNCTION	Literal	211		
CRD\$K_LAST_HOOK_POINT	Literal	211		
CRD\$K_LAST_INTERNAL_ERROR	Literal	211		
CRD\$K_LAST_TYPE	Literal	211		
CRD\$K_LESI_ENWCA	Literal	211		
CRD\$K_LESI_EVRMB_0	Literal	211		
CRD\$K_LESI_EVRMB_1	Literal	211		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	211		
CRD\$K_LEVEL_4_PASSED	Literal	211		
CRD\$K_LOAD_AUTOSIZER	Literal	211		
CRD\$K_LOAD_ERROR	Literal	211		
CRD\$K_LOAD_GENERAL_COM	Literal	211		
CRD\$K_LOAD_LOAD_COM	Literal	211		
CRD\$K_LOAD_SELECT_COM	Literal	211		
CRD\$K_LOAD_SET_EVENT_COM	Literal	211		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	211		
CRD\$K_LOAD_START_COM	Literal	211		
CRD\$K_LOAD_SUP_FILE	Literal	211		
CRD\$K_MM_INTERNAL_ERROR	Literal	211		
CRD\$K_NEW_LINE	Literal	211		
CRD\$K_NUMB_GENERAL_COMMANDS	Literal	Lib01	321	
CRD\$K_PREPARATION_ERROR	Literal	211		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	211		
CRD\$K_REPEAT_TURING	Literal	Lib01	289	337 412 451 668 695 882 938 990 1200
CRD\$K_RUNTIME	Literal	211	1163	1171
CRD\$K_SAME_LINE	Literal	211		
CRD\$K_SET_EVENT_ARGS	Literal	211	935	
CRD\$K_SET_FLAGS_ARGS	Literal	211	987	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	211		
CRD\$K_START	Literal	211		
CRD\$K_START_AUTOSIZER	Literal	211		
CRD\$K_START_ERROR	Literal	211		
CRD\$K_START_QUALIFIERS	Literal	211	1039	

Symbol	Type	Defined	Referenced ...
CRD\$K_STAR_LINE	Literal	211	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	211	1185
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	211	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	211	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	211	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	211	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	211	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	211	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	211	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	211	287
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	211	327
CRD\$K_STATE_DUMMY_1	Literal	211	
CRD\$K_STATE_DUMMY_10	Literal	211	
CRD\$K_STATE_DUMMY_12	Literal	211	
CRD\$K_STATE_DUMMY_13	Literal	211	
CRD\$K_STATE_DUMMY_2	Literal	211	
CRD\$K_STATE_DUMMY_3	Literal	211	
CRD\$K_STATE_DUMMY_4	Literal	211	
CRD\$K_STATE_DUMMY_6	Literal	211	
CRD\$K_STATE_DUMMY_7	Literal	211	
CRD\$K_STATE_DUMMY_8	Literal	211	
CRD\$K_STATE_EXIT_CRD	Literal	211	
CRD\$K_STATE_INTERNAL_ERROR	Literal	211	
CRD\$K_STATE_LAST_STATE	Literal	211	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	211	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	211	
CRD\$K_STATE_LOAD_ERROR	Literal	211	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	211	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	211	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	211	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	211	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	211	
CRD\$K_STATE_LOAD_START_COM	Literal	211	
CRD\$K_STATE_PREPARATION_ERROR	Literal	211	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	211	
CRD\$K_STATE_START	Literal	211	
CRD\$K_STATE_START_AUTOSIZER	Literal	211	
CRD\$K_STATE_START_ERROR	Literal	211	
CRD\$K_SUCCESS	Unbound	462	737 784 837 897 949 1001 1050 1241
CRD\$K_SUCCESS	Literal	Lib01 373 462 556 569 590 602 613 624 633 737	
CRD\$K_TEST_START_TEXT	Literal	211	1140 1171
CRD\$K_TQ_INTERNAL_ERROR	Literal	211	
CRD\$K_TYPECODE	Literal	211	
CRD\$K_UDA_0_EVDLB	Literal	211	
CRD\$K_UDA_0_EVDLC	Literal	211	
CRD\$K_UDA_0_EVDLD	Literal	211	
CRD\$K_UDA_0_EVRLA_0	Literal	211	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	211	
CRD\$K_UDA_1_EVDLB	Literal	211	
CRD\$K_UDA_1_EVDLC	Literal	211	
CRD\$K_UDA_1_EVDLD	Literal	211	
CRD\$K_UDA_1_EVRLA_0	Literal	211	

Type Defined Referenced ...

```
CRD$K_UDA_1_EVRLA_1 Literal 211
CRD$K_UDA_1_LAST_DIAGNOSTIC Literal 211
CRD$K_UDA_2_EVDLB Literal 211
CRD$K_UDA_2_EVDLC Literal 211
CRD$K_UDA_2_EVDLD Literal 211
CRD$K_UDA_2_EVRLA_0 Literal 211
CRD$K_UDA_2_LAST_DIAGNOSTIC Literal 211
CRD$K_UDA_3_EVDLB Literal 211
CRD$K_UDA_3_EVDLC Literal 211
CRD$K_UDA_3_EVDLD Literal 211
CRD$K_UDA_3_EVRLA_0 Literal 211
CRD$K_UDA_3_EVRLA_1 Literal 211
CRD$K_UDA_3_LAST_DIAGNOSTIC Literal 211
CRD$LEVEL_4_PASSED GlobRout 673 Lib01e 177f
CRD$LOAD_AUTOSIZER GlobRout 699 Lib01e 181f
CRD$LOAD_GENERAL_COM GlobRout 741 Lib01e 184f
CRD$LOAD_LOAD_COM GlobRout 790 Lib01e 186f
CRD$LOAD_SELECT_COM GlobRout 841 Lib01e 189f
CRD$LOAD_SET_EVENT_COM GlobRout 901 Lib01e 192f
CRD$LOAD_SET_FLAGS_COM GlobRout 953 Lib01e 195f
CRD$LOAD_START_COM GlobRout 1005 Lib01e 198f
CRD$PRINT External Lib01 262ac 265ac 277ac 319ac 665ac 693ac 1084ac 1163ac 1171ac 1182ac
1196ac
CRD$PRINT_DDB ExtRout Lib01 267c 279c 405c 826c 1086c 1198c
CRD$PRINT_DS_COMMAND ExtRout Lib01 460c 735c 782c 835c 895c 947c 999c 1048c 1239c
CRD$SET_UP_DIAGNOSTIC GlobRout 1054 Lib01e 201f
CRD$START_AUTOSIZER GlobRout 1204 Lib01e 206f
CRD$STOP ExtRout Lib01 375c
CSR Local 537 563= 564. 577= 578.
DATA_BUFFER_ADDRESS RoutForm 741 772. 779a= 782.
DATA_MAX_LENGTH RoutForm 741 770. 772. 782.
DDB$V_STATUS_CHECK_DEVICE_TYPE Macro Lib01 1108
DDB$V_STATUS_DEV_TEST_COMPLETE Macro Lib01 1191
DDB$V_STATUS_MESSAGE_PRINTED Macro Lib01 261 1188
DDB_PTR Local 368 382= 389m 395a= 398a. 405. 407= 407a. 410.
DEVICE_DATA_BLOCK_STRUCTURE Structur Lib01 254 255 389 442 814 865 925 977 1032 1077
1228
DEVICE_NAME Bind 875 877. 890.
DIAG_NAME Bind 824 830.
DIAG_SUPPORT_VECTOR Bind 398 401.
DIAG_VECTOR_PTR Bind 820 824.
Bind 871 875.
Bind 931 935.
Bind 983 987.
Bind 1035 1039.
Bind 1080 1140. 1163. 1171.
DS$K_PRINTB Literal 210
Literal 262
Literal 265
Literal 277
Literal 319
Literal 665
Literal 693
```

ZZ-ENSAB-2.0 CRD\$Start_AutoSizer

CRDACT2 *** CRDACT2 Module

01-17 CRD\$Start_AutoSizer

19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746

3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1

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19-Sep-1985

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Symbol Type Defined Referenced ...

	Literal	1084		
	Literal	1163		
	Literal	1171		
	Literal	1182		
	Literal	1196		
DS\$K_PRINTF	Literal		210	
	Literal	262	262	
	Literal	265	265	
	Literal	277	277	
	Literal	319	319	
	Literal	665	665	
	Literal	693	693	
	Literal	1084	1084	
	Literal	1163	1163	
	Literal	1171	1171	
	Literal	1182	1182	
	Literal	1196	1196	
DS\$K_PRINTI	Literal		210	
	Literal	262		
	Literal	265		
	Literal	277		
	Literal	319		
	Literal	665		
	Literal	693		
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	Literal	1163		
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	Literal	1182		
	Literal	1196		
DS\$K_PRINTX	Literal		210	
	Literal	262		
	Literal	265		
	Literal	277		
	Literal	319		
	Literal	665		
	Literal	693		
	Literal	1084		
	Literal	1163		
	Literal	1171		
	Literal	1182		
	Literal	1196		
DS\$K_TYPE_ABORT_PROGRAM	Literal		210	
	Literal	262		
	Literal	265		
	Literal	277		
	Literal	319		
	Literal	665		
	Literal	693		
	Literal	1084		
	Literal	1163		
	Literal	1171		
	Literal	1182		
	Literal	1196		

Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_ABORT_TEST	Literal		210	
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Literal	262
Literal	265
Literal	277
Literal	319
Literal	665
Literal	693
Literal	1084
Literal	1163
Literal	1171
Literal	1182
Literal	1196

DS\$K_TYPE_COMMAND_ERR	Literal		210	
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Literal	262
Literal	265
Literal	277
Literal	319
Literal	665
Literal	693
Literal	1084
Literal	1163
Literal	1171
Literal	1182
Literal	1196

DS\$K_TYPE_COMMAND_OUT	Literal		210	
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Literal	262
Literal	265
Literal	277
Literal	319
Literal	665
Literal	693
Literal	1084
Literal	1163
Literal	1171
Literal	1182
Literal	1196

DS\$K_TYPE_CRD_AUTOTEST	Literal		210	
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Literal	262	262
Literal	265	265
Literal	277	277
Literal	319	319
Literal	665	665
Literal	693	693
Literal	1084	1084
Literal	1163	1163
Literal	1171	1171
Literal	1182	1182
Literal	1196	1196

DS\$K_TYPE_DS_PROMPT	Literal		210	
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Literal	262
Literal	265
Literal	277
Literal	319

ZZ-ENSAB-2.0 CRD\$Start_AutoSizer H 1
 CRDACT2 *** CRDACT2 Module 19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame H1 Sequence 419
 01-17 CRD\$Start_AutoSizer 3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1 (41) Page 69

Symbol ----- Type Defined Referenced ...

Literal	665		
Literal	693		
Literal	1084		
Literal	1163		
Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_DS_START	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
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DS\$K_TYPE_ERRDEV	Literal	210	
Literal	262		
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DS\$K_TYPE_ERRHARD	Literal	210	
Literal	262		
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Literal	319		
Literal	665		
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Literal	1084		
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DS\$K_TYPE_ERROR_BODY	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
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Literal	1163		
Literal	1171		

Symbol Type Defined Referenced ...

	Literal	1182	
	Literal	1196	
DS\$K_TYPE_ERROR_END	Literal	210	
	Literal	262	
	Literal	265	
	Literal	277	
	Literal	319	
	Literal	665	
	Literal	693	
	Literal	1084	
	Literal	1163	
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DS\$K_TYPE_ERRPREP	Literal	210	
	Literal	262	
	Literal	265	
	Literal	277	
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	Literal	1084	
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DS\$K_TYPE_ERRSOFT	Literal	210	
	Literal	262	
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	Literal	319	
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	Literal	1084	
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DS\$K_TYPE_ERRSUP	Literal	210	
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DS\$K_TYPE_ERRSYS	Literal	210	
	Literal	262	
	Literal	265	

Symbol Type Defined Referenced ...

Literal	277		
Literal	319		
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Literal	693		
Literal	1084		
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Literal	1196		
DS\$K_TYPE_ERR_HALT	Literal	210	
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Literal	319		
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Literal	693		
Literal	1084		
Literal	1163		
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Literal	1196		
DS\$K_TYPE_EXCEPTION	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
Literal	1163		
Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
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Literal	1196		
DS\$K_TYPE_FIRST_PASS	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		

Symbol Type Defined Referenced ...

	Literal	1163		
	Literal	1171		
	Literal	1182		
	Literal	1196		
DS\$K_TYPE_GENERAL	Literal	210		
	Literal	262		
	Literal	265		
	Literal	277		
	Literal	319		
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	Literal	1084		
	Literal	1163		
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	Literal	1196		
DS\$K_TYPE_GENERAL_ERROR	Literal	210		
	Literal	262		
	Literal	265		
	Literal	277		
	Literal	319		
	Literal	665		
	Literal	693		
	Literal	1084		
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	Literal	1196		
DS\$K_TYPE_NO_TESTS	Literal	210		
	Literal	262		
	Literal	265		
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	Literal	319		
	Literal	665		
	Literal	693		
	Literal	1084		
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DS\$K_TYPE_PARAM_ERROR	Literal	210		
	Literal	262		
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	Literal	319		
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	Literal	693		
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	Literal	1196		
DS\$K_TYPE_PROGRAM_END	Literal	210		

Symbol Type Defined Referenced ...

Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
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Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_PROGRAM_INFO	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
Literal	1163		
Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_PROGRAM_START	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
Literal	1163		
Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_QIO_INVADP	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		
Literal	693		
Literal	1084		
Literal	1163		
Literal	1171		
Literal	1182		
Literal	1196		
DS\$K_TYPE_QIO_NODRIVER	Literal	210	
Literal	262		
Literal	265		
Literal	277		
Literal	319		
Literal	665		

Symbol	Type	Defined	Referenced	...
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Literal	693			
Literal	1084			
Literal	1163			
Literal	1171			
Literal	1182			
Literal	1196			
DS\$K_TYPE_QIO_WRONGVER	Literal	210		
Literal	262			
Literal	265			
Literal	277			
Literal	319			
Literal	665			
Literal	693			
Literal	1084			
Literal	1163			
Literal	1171			
Literal	1182			
Literal	1196			
DS\$K_TYPE_SCRIPT_ECHO	Literal	210		
Literal	262			
Literal	265			
Literal	277			
Literal	319			
Literal	665			
Literal	693			
Literal	1084			
Literal	1163			
Literal	1171			
Literal	1182			
Literal	1196			
DS\$K_TYPE_SCRIPT_PNF	Literal	210		
Literal	262			
Literal	265			
Literal	277			
Literal	319			
Literal	665			
Literal	693			
Literal	1084			
Literal	1163			
Literal	1171			
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Literal	1196			
DS\$K_TYPE_SCRIPT_PROMPT	Literal	210		
Literal	262			
Literal	265			
Literal	277			
Literal	319			
Literal	665			
Literal	693			
Literal	1084			
Literal	1163			
Literal	1171			
Literal	1182			

Symbol	Type	Defined	Referenced	...

DS\$K_LITERAL	Literal	1196		
DS\$K_TYPE_SCRIPT_SKIP	Literal	210		
LITERAL		262		
LITERAL		265		
LITERAL		277		
LITERAL		319		
LITERAL		665		
LITERAL		693		
LITERAL		1084		
LITERAL		1163		
LITERAL		1171		
LITERAL		1182		
LITERAL		1196		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	210		
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LITERAL		265		
LITERAL		277		
LITERAL		319		
LITERAL		665		
LITERAL		693		
LITERAL		1084		
LITERAL		1163		
LITERAL		1171		
LITERAL		1182		
LITERAL		1196		
DS\$K_TYPE_START_ERR	Literal	210		
LITERAL		262		
LITERAL		265		
LITERAL		277		
LITERAL		319		
LITERAL		665		
LITERAL		693		
LITERAL		1084		
LITERAL		1163		
LITERAL		1171		
LITERAL		1182		
LITERAL		1196		
DS\$K_TYPE_START_LIST	Literal	210		
LITERAL		262		
LITERAL		265		
LITERAL		277		
LITERAL		319		
LITERAL		665		
LITERAL		693		
LITERAL		1084		
LITERAL		1163		
LITERAL		1171		
LITERAL		1182		
LITERAL		1196		
DS\$K_TYPE_SUMMARY	Literal	210		
LITERAL		262		
LITERAL		265		
LITERAL		277		

.....

[illegible]

Symbol	Type	Defined	Referenced	...
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	211		
HS\$K_STATE_CHANGE_TABLE	Literal	211		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	211		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	211		
HS\$K_STATE_DONE_GENERAL_COM	Literal	211		
HS\$K_STATE_DUMMY_1	Literal	211		
HS\$K_STATE_DUMMY_2	Literal	211		
HS\$K_STATE_DUMMY_3	Literal	211		
HS\$K_STATE_DUMMY_4	Literal	211		
HS\$K_STATE_DUMMY_6	Literal	211		
HS\$K_STATE_INIT_HS	Literal	211		
HS\$K_STATE_INTERNAL_ERROR	Literal	211		
HS\$K_STATE_LAST_STATE	Literal	211		
HS\$K_STATE_LOAD_ERROR	Literal	211		
HS\$K_STATE_LOAD_GENERAL_COM	Literal	211		
HS\$K_STATE_LOAD_LOAD_COM	Literal	211		
HS\$K_STATE_LOAD_SELECT_COM	Literal	211		
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	211		
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	211		
HS\$K_STATE_LOAD_START_COM	Literal	211		
HS\$K_STATE_PREPARATION_ERROR	Literal	211		
HS\$K_STATE_START_ERROR	Literal	211		
IDC_DEVICE_NAME	Bind	517	543a	
IDC_PTABLE	Register	527	527= 543=	551.
LENGTH	Bind	1100	1100	
LESI_DEVICE_NAME	Bind	518	544a	
LESI_PTABLE	Register	528	528= 544=	559. 562.
MEN\$K_HS_STATE_TABLE	Literal	211		
MEN\$K_MM_STATE_TABLE	Literal	211		
MEN\$K_TQ_STATE_TABLE	Literal	211		
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	211		
MEN\$K_EXIT_INTERNAL_ERROR	Literal	211		
MEN\$K_EXIT_LAST_REASON	Literal	211		
MEN\$K_EXIT_OPERATOR_ABORT	Literal	211		
MEN\$K_EXIT_OPERATOR_STOP	Literal	211		
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	211		
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	211		
MM\$K_ACTION_ADVANCE_STATE	Literal	211		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	211		
MM\$K_ACTION_BUILD_DDBS	Literal	211		
MM\$K_ACTION_BUILD_HSTS	Literal	211		
MM\$K_ACTION_CHANGE_TABLE	Literal	211		
MM\$K_ACTION_DONE_INITS	Literal	211		
MM\$K_ACTION_DO_NOTHING	Literal	211		
MM\$K_ACTION_DUMMY_3	Literal	211		
MM\$K_ACTION_DUMMY_4	Literal	211		
MM\$K_ACTION_DUMMY_5	Literal	211		
MM\$K_ACTION_DUMMY_6	Literal	211		
MM\$K_ACTION_DUMMY_7	Literal	211		
MM\$K_ACTION_DUMMY_8	Literal	211		
MM\$K_ACTION_INTERNAL_ERROR	Literal	211		
MM\$K_ACTION_LAST_ACTION	Literal	211		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	211		

Symbol	Type	Defined	Referenced	...

MM\$K_ACTION_MENU_PROMPT	Literal	211		
MM\$K_ACTION_PRINT_MENU	Literal	211		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	211		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	211		
MM\$K_ACTION_START_AUTOSIZER	Literal	211		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	211		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	211		
MM\$K_STATE_BUILD_DDBS	Literal	211		
MM\$K_STATE_BUILD_HSTS	Literal	211		
MM\$K_STATE_CHANGE_TABLE	Literal	211		
MM\$K_STATE_DONE_INITS	Literal	211		
MM\$K_STATE_DUMMY_1	Literal	211		
MM\$K_STATE_DUMMY_2	Literal	211		
MM\$K_STATE_DUMMY_3	Literal	211		
MM\$K_STATE_DUMMY_5	Literal	211		
MM\$K_STATE_DUMMY_7	Literal	211		
MM\$K_STATE_DUMMY_8	Literal	211		
MM\$K_STATE_INTERNAL_ERROR	Literal	211		
MM\$K_STATE_LAST_STATE	Literal	211		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	211		
MM\$K_STATE_MENU_PROMPT	Literal	211		
MM\$K_STATE_PRINT_MENU	Literal	211		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	211		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	211		
MM\$K_STATE_START	Literal	211		
MM\$K_STATE_START_AUTOSIZER	Literal	211		
MODNAM	Macro	Lib02 227		
MOVC3	Builtin	1144 1146 1155		
NUL2ND_	Macro	Lib04 210 211 262 265 277 319 665 693 1084 1163		
		1171 1182 1196		
PTABLE	Bind	1133 1136a		
PTABLE_DEVICE_TYPE	Bind	1136 1152. 1155a		
PTABLE_DEVICE_TYPE_LENGTH	Local	1120 1152= 1155.		
PTABLE_PTR	Local	538 562= 563a. 576= 577a.		
	Bind	1130 1133a		
RA60_DRIVE_0_DEVICE_NAME	Bind	521 546a		
RA60_DRIVE_0_PTABLE	Register	531 531= 546= 585. 619.		
RA60_DRIVE_1_DEVICE_NAME	Bind	525 548a		
RA60_DRIVE_1_PTABLE	Register	535 535= 548= 585. 596. 608. 619.		
RA8081_DRIVE_0_DEVICE_NAME	Bind	523 547a		
RA8081_DRIVE_0_PTABLE	Register	533 533= 547= 597. 608.		
SET_EVENT_ARGS	Bind	935 937. 942.		
SET_FLAGS_ARGS	Bind	987 989. 994.		
START_QUALIFIERS	Bind	1039 1043.		
STRING	Bind	1100 1100.		
	Bind	1100 1100.		
	Bind	1100 1100.		
	Bind	1100 1100.		
	Bind	1100 1100.		
TEMP_TEST_START_TEXT	Local	1124 1146= 1155= 1163a		
TEST_START_TEXT	Bind	1140 1146. 1146a		
TQ\$K_ACTION_ADVANCE_STATE	Literal	211		

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_CHANGE_TABLE	Literal	211		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	211		
TQ\$K_ACTION_DO_NOTHING	Literal	211		
TQ\$K_ACTION_DUMMY_3	Literal	211		
TQ\$K_ACTION_DUMMY_4	Literal	211		
TQ\$K_ACTION_DUMMY_5	Literal	211		
TQ\$K_ACTION_GET_DDB	Literal	211		
TQ\$K_ACTION_INIT_TQ	Literal	211		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	211		
TQ\$K_ACTION_LAST_ACTION	Literal	211		
TQ\$K_STATE_CHANGE_TABLE	Literal	211		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	211		
TQ\$K_STATE_DUMMY_1	Literal	211		
TQ\$K_STATE_DUMMY_2	Literal	211		
TQ\$K_STATE_DUMMY_3	Literal	211		
TQ\$K_STATE_DUMMY_4	Literal	211		
TQ\$K_STATE_DUMMY_5	Literal	211		
TQ\$K_STATE_GET_DDB	Literal	211		
TQ\$K_STATE_INIT_TQ	Literal	211		
TQ\$K_STATE_INTERNAL_ERROR	Literal	211		
TQ\$K_STATE_LAST_STATE	Literal	211		
TRUE	Literal	Lib01 1188		
UDA_DEVICE_NAME	Bind	519 545a		
UDA_PTABLE	Register	529 529= 545= 573. 576.		

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDACT2.B32;1
2	Module	CRDACT2
146	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
149	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
152	Library #3	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
155	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
1244	Eludom	CRDACT2

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

```

ZZ-ENSAB-2.0      CRD$Start_AutoSizer      F 2
CRDACT2 *** CRDACT2 Module      19-Sep-1985 16:32:55 VAX-11 Bliss-32 V4.1-746      19-Sep-1985      Fiche 3 Frame F2      Sequence 430
01-17 CRD$Start_AutoSizer      3-Jan-1985 17:02:00 [DS.CRD.V020]CRDACT2.B32;1      Page 80      (41)

```

```

; Library Statistics
;

```

File	Total	Loaded	Percent	Pages	Processing	Mapped	Time
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	69	14	62			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	18	1	94			00:00.2
SYS\$COMMON:[SYSLIB]LIB.L32;2			18619	3	0	1000	00:04.3

```

; COMMAND QUALIFIERS
;

```

```

; BLISS CRDACT2.B32/LIST=CRDACT2.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDACT2.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)
;

```

```

; Size: 1689 code + 292 data bytes
; Run Time: 00:54.4
; Elapsed Time: 01:25.2
; Lines/CPU Min: 1372
; Lexemes/CPU-Min: 58965
; Memory Used: 306 pages
; Compilation Complete

```

```

: 0001 0 xTITLE '*** CRDCTRLC Module'
: 0002 0 MODULE CRDCTRLC ( ! Handle the DS$GL_Flags bits pertaining to ^C
: 0003 0 IDENT = '01-00'
: 0004 0 ) =
: 0005 0 !+
: 0006 0 ! COPYRIGHT (c) 1980, 1981
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 ! REMAIN IN DEC.
: 0016 0 !
: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 ! -

```

ZZ-ENSAB-2.0 *** CRDCTRLC Module
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746
01-00 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (2)

H 2

19-Sep-1985

Fiche 3 Frame H2

Sequence 432

Page 2

```
; 0024 0 | **
; 0025 0 | Facility:
; 0026 0 |
; 0027 0 | Diagnostic Supervisor (part of the Loadable-CRD image).
; 0028 0 |
; 0029 0 | Abstract:
; 0030 0 |
; 0031 0 | Handle setting and clearing the bits in the DS$GL_Flags longword.
; 0032 0 |
; 0033 0 | Author:
; 0034 0 |
; 0035 0 | Jack Stansbury
; 0036 0 |
; 0037 0 | Creation Date:
; 0038 0 |
; 0039 0 | July 29, 1982
; 0040 0 |
; 0041 0 | Version:
; 0042 0 |
; 0043 0 | 6.9
; 0044 0 |
; 0045 0 | Modified By:
; 0046 0 |
; 0047 0 | None
; 0048 0 |
```

ZZ-ENSAB-2.0 Libraries
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746
01-00 Libraries 3-Jan-1985 17:02:02 (DS.CRD.V020)CRDCTRLC.B32;1 (3)

I 2

Fiche 3 Frame 12
Page 3

Sequence 433

```
; 0049 0 xSBTTL 'Libraries'
; 0050 1 BEGIN      ! Begin the CRDCTRLC module
; 0051 1
; 0052 1 LIBRARY
; 0053 1 '$DS';      ! Use Ds.L32 first
; 0054 1
; 0055 1 LIBRARY
; 0056 1 '$Diag';    ! Use Diag.L32 second
; 0057 1
; 0058 1 LIBRARY
; 0059 1 '$CRD';     ! Use CRD.L32 third
; 0060 1
; 0061 1 LIBRARY
; 0062 1 'Sys$Library:Lib'; ! Use Lib as last resort
```



```

: 0063 1 xSBTTL 'Table of Contents'
: 0064 1
: 0065 1 FORWARD ROUTINE
: 0066 1 CRD$Set_Ctrl_C_Handlers : JSB_RO_R1 NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0067 1 ! Establish the two control-c handlers for the DS (for CRD)
: 0068 1
: 0069 1 CRD$Clear_Ctrl_C_Handlers : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0070 1 ! Clear the two handler addresses
: 0071 1
: 0072 1 CRD$Enable_Ctrl_C : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0073 1 ! Enable catching of ^C's.
: 0074 1
: 0075 1 CRD$Disable_Ctrl_C : JSB_NO_REGS NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0076 1 ! Disable catching of ^C's - i.e., ignore them
: 0077 1
: 0078 1 CRD$Check_Ctrl_C : JSB_NO_REGS ADDRESSING_MODE (LONG_RELATIVE);
: 0079 1 ! Return the setting of the $DS_GL_Flags <DS$V_CtrlC> bit.

```

ZZ-ENSAB-2.0 Included Macros and Literals K 2
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame K2 Sequence 435
01-00 Included Macros and Literals 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 Page 5 (5)

; 0080 1 xSBTTL 'Included Macros and Literals'
; 0081 1
; 0082 1 \$CRD_Literals; ! The CRD literals

```
; 0083 1 xSBTTL 'Psect Definitions'
; 0084 1
; 0085 1 PSECT
; 0086 1     PLIT     = Data (NOEXECUTE,     SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0087 1
; 0088 1 PSECT
; 0089 1     CODE     = Code ( EXECUTE,     SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0090 1
; 0091 1 PSECT
; 0092 1     OWN     = Work (NOEXECUTE, NOSHARE,     WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0093 1
; 0094 1 PSECT
; 0095 1     GLOBAL - Work (NOEXECUTE, NOSHARE,     WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

```

ZZ-ENSAB-2.0      Module-Global Static Storage      M 2      19-Sep-1985      Fiche 3      Frame M2      Sequence 437
CRDCTRLC *** CRDCTRLC Module      19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746      Page 7
01-00 Module-Global Static Storage      3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1      (7)

; 0096 1 xSBTTL 'Module-Global Static Storage'
; 0097 1
; 0098 1 ModNam ('CRDCTRLC'); ! Module name for ErrSup macro

```

ZZ-ENSAB-2.0 CRD\$Set_Ctrl_C_Handlers Routine N 2
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame N2 Sequence 438
 01-00 CRD\$Set_Ctrl_C_Handlers Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (8)

```

; 0099 1 xSBTTL 'CRD$Set_Ctrl_C_Handlers Routine'
; 0100 1
; 0101 1 GLOBAL ROUTINE CRD$Set_Ctrl_C_Handlers (First_Handler, Second_Handler) : JSB_R0_R1 NOVALUE
; 0102 1
; 0103 1 !**
; 0104 1 | Functional Description:
; 0105 1 |
; 0106 1 | Set up two ^C handler routines.
; 0107 1 |
; 0108 1 | Formal Input Parameters:
; 0109 1 |
; 0110 1 | First_Handler: The first ^C handler routine address.
; 0111 1 | Second_Handler: The second ^C handler routine address.
; 0112 1 |
; 0113 1 | Formal Output Parameters:
; 0114 1 |
; 0115 1 | None
; 0116 1 |
; 0117 1 | Side Effects:
; 0118 1 |
; 0119 1 | None
; 0120 1 |
; 0121 1 | Completion Codes:
; 0122 1 |
; 0123 1 | None
; 0124 1 | --

```

```

; 0125 2 BEGIN      ! Routine CRD$Set_Ctrl_C_Handlers
; 0126 2  .CRD$GA_DS_Ctrl_C_First = .First_Handler;
; 0127 2      ! Set up first handler
; 0128 2  .CRD$GA_DS_ctrl_C_Second = .Second_Handler;
; 0129 2      ! Set up second handler
; 0130 2  RETURN
; 0131 1 END;      ! Routine CRD$Set_Ctrl_C_Handlers

```

```

.TITLE CRDCTRLC *** CRDCTRLC Module
.IDENT \01-00\

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

43 4C 52 54 43 44 52 43 08 00000 P.AAA: .ASCII <8>\CRDCTRLC\ ;

```

```

$MODULE= P.AAA
.EXTRN CRD$SET_CTRL_C_HANDLERS
.EXTRN CRD$CLEAR_CTRL_C_HANDLERS
.EXTRN CRD$ENABLE_CTRL_C
.EXTRN CRD$DISABLE_CTRL_C
.EXTRN CRD$CHECK_CTRL_C
.EXTRN CRD$GA_DS_CTRL_C_FIRST
.EXTRN CRD$GA_DS_CTRL_C_SECOND

```

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

```

00000000G FF 50 D0 00000 CRD$SET_CTRL_C_HANDLERS::
      MOVL FIRST_HANDLER, @CRD$GA_DS_CTRL_C_FIRST ; 0126
00000000G FF 51 D0 00007 MOVL SECOND_HANDLER, @CRD$GA_DS_CTRL_C_SECOND ; 0128
05 0000E RSB ; 0131

```

```

; Routine Size: 15 bytes, Routine Base: CODE + 0000

```

ZZ-ENSAB-2.0 CRD\$Clear_Ctrl_C_Handlers Routine C 3
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame C3
01-00 CRD\$Clear_Ctrl_C_Handlers Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (10) Page 10

```
: 0132 1 *SBTTL 'CRD$Clear_Ctrl_C_Handlers Routine'
: 0133 1
: 0134 1 GLOBAL ROUTINE CRD$Clear_Ctrl_C_Handlers : JSB_NO_REGS NOVALUE =
: 0135 1
: 0136 1 !**
: 0137 1 ! Functional Description:
: 0138 1 !
: 0139 1 ! Clear both of the DS ^C handlers.
: 0140 1 !
: 0141 1 ! Formal Input Parameters:
: 0142 1 !
: 0143 1 ! None
: 0144 1 !
: 0145 1 ! Formal Output Parameters:
: 0146 1 !
: 0147 1 ! None
: 0148 1 !
: 0149 1 ! Side Effects:
: 0150 1 !
: 0151 1 ! None
: 0152 1 !
: 0153 1 ! Completion Codes:
: 0154 1 !
: 0155 1 ! None
: 0156 1 ! --
```

ZZ-ENSAB-2.0 CRD\$Clear_Ctrl_C_Handlers Routine D 3
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame D3
01-00 CRD\$Clear_Ctrl_C_Handlers Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (11) Page 11

```
: 0157 2 BEGIN      ! Routine CRD$Clear_Ctrl_C_Handlers
: 0158 2  .CRD$GA_DS_Ctrl_C_First  = 0;
: 0159 2  .CRD$GA_DS_Ctrl_C_Second = 0;
: 0160 2  RETURN
: 0161 1 END;      ! Routine CRD$Clear_Ctrl_C_Handlers
```

```
00000000G FF D4 00000 CRD$CLEAR_CTRL_C_HANDLERS::
          CLRL  aCRD$GA_DS_CTRL_C_FIRST      ; 0158
00000000G FF D4 00006 CLRL  aCRD$GA_DS_CTRL_C_SECOND      ; 0159
05 0000C RSB      ; 0161
```

; Routine Size: 13 bytes, Routine Base: CODE + 000F


```

: 0162 1 xSBTTL 'CRD$Enable_Ctrl_C Routine'
: 0163 1
: 0164 1 GLOBAL ROUTINE CRD$Enable_Ctrl_C : JSB_NO_REGS NOVALUE =
: 0165 1
: 0166 1 !*
: 0167 1 ! Functional Description:
: 0168 1 !
: 0169 1 ! Enable the DisabICC bit in the DS$GL_Flags longword. Th's enables ^C's to be recognized (i.e., not
: 0170 1 ! ignored) by the DS (and CRD).
: 0171 1 !
: 0172 1 ! Formal Input Parameters:
: 0173 1 !
: 0174 1 ! None
: 0175 1 !
: 0176 1 ! Formal Output Parameters:
: 0177 1 !
: 0178 1 ! None
: 0179 1 !
: 0180 1 ! Side Effects:
: 0181 1 !
: 0182 1 ! None
: 0183 1 !
: 0184 1 ! Completion Codes:
: 0185 1 !
: 0186 1 ! None
: 0187 1 !

```

ZZ-ENSAB-2.0 CRD\$Enable_Ctrl_C Routine
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Page 13
 01-00 CRD\$Enable_Ctrl_C Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (13)

```

; 0188 2 BEGIN      ! Routine CRD$Enable_Ctrl_C
; 0189 2 BIND
; 0190 2   DS$GL_Flags = (.CRD$GA_DS_Flags);
; 0191 2
; 0192 2   DS$GL_Flags <DS$V_DisabICC> = False;
; 0193 2       ! Enable ^C's
; 0194 2   RETURN
; 0195 1 END;      ! Routine CRD$Enable_Ctrl_C

```

.EXTRN CRD\$GA_DS_FLAGS

```

00000000G FF      01      18      00 F0 00000 CRD$ENABLE_CTRL_C::
          INSV    #0, #24, #1, aCRD$GA_DS_FLAGS ; 0192
          05 00009 RSB          ; 0195

```

; Routine Size: 10 bytes, Routine Base: CODE + 001C

```

: 0196 1 *SBTTL 'CRD$Disable_Ctrl_C Routine'
: 0197 1
: 0198 1 GLOBAL ROUTINE CRD$Disable_Ctrl_C : JSB_NO_REGS NOVALUE =
: 0199 1
: 0200 1 !**
: 0201 1 ! Functional Description:
: 0202 1 !
: 0203 1 ! Disable catching of ^C's. That is, ignore them if they are typed.
: 0204 1 !
: 0205 1 ! Formal Input Parameters:
: 0206 1 !
: 0207 1 ! None
: 0208 1 !
: 0209 1 ! Formal Output Parameters:
: 0210 1 !
: 0211 1 ! None
: 0212 1 !
: 0213 1 ! Side Effects:
: 0214 1 !
: 0215 1 ! None
: 0216 1 !
: 0217 1 ! Completion Codes:
: 0218 1 !
: 0219 1 ! None
: 0220 1 ! --

```

ZZ-ENSAB-2.0 CRD\$Disable_Ctrl_C Routine H 3
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame H3 Sequence 445
 01-00 CRD\$Disable_Ctrl_C Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (15) Page 15

```

; 0221 2 BEGIN      ! Routine CRD$Disable_Ctrl_C
; 0222 2 BIND
; 0223 2   DS$GL_Flags = (.CRD$GA_DS_Flags);
; 0224 2
; 0225 2   DS$GL_Flags <DS$V_DisabICC> = True;
; 0226 2   ! Disable ^C's
; 0227 2   RETURN
; 0228 1 END;      ! Routine CRD$Disable_Ctrl_C

```

```

00000000G FF      01      18      01 F0 00000 CRD$DISABLE_CTRL_C::
          INSV      #1, #24, #1, @CRD$GA_DS_FLAGS      ; 0225
          05 00009   RSB      ; 0228

```

; Routine Size: 10 bytes, Routine Base: CODE + 0026

ZZ-ENSAB-2.0 CRD\$Set_Ctrl_C_Flag Routine I 3
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame 13 Sequence 446
01-00 CRD\$Set_Ctrl_C_Flag Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (16) Page 16

```
; 0229 1 xSBTTL 'CRD$Set_Ctrl_C_Flag Routine'
; 0230 1
; 0231 1 GLOBAL ROUTINE CRD$Set_Ctrl_C_Flag : JSB_NO_REGS NOVALUE =
; 0232 1
; 0233 1 !*
; 0234 1 ! Functional Description:
; 0235 1 !
; 0236 1 ! Set the DS$GL_Flags <DS$V_CtrlC> bit.
; 0237 1 !
; 0238 1 ! Formal Input Parameters:
; 0239 1 !
; 0240 1 ! None
; 0241 1 !
; 0242 1 ! Formal Output Parameters:
; 0243 1 !
; 0244 1 ! None
; 0245 1 !
; 0246 1 ! Side Effects:
; 0247 1 !
; 0248 1 ! None
; 0249 1 !
; 0250 1 ! Completion Codes:
; 0251 1 !
; 0252 1 ! None
; 0253 1 ! --
```

ZZ-ENSAB-2.0 CRD\$Set_Ctrl_C_Flag Routine J 3
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame J3 Sequence 447
 01-00 CRD\$Set_Ctrl_C_Flag Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (17) Page 17

```

; 0254 2 BEGIN      ! Routine CRD$Set_Ctrl_C_Flag
; 0255 2 BIND
; 0256 2   DS$GL_Flags = (.CRD$GA_DS_Flags);
; 0257 2
; 0258 2   DS$GL_Flags <DS$V_CtrlC> = True;
; 0259 2   ! Set the bit, indicating a ^C was typed
; 0260 2   RETURN
; 0261 1 END;      ! Routine CRD$Set_Ctrl_C_Flag

```

.EXTRN CRD\$SET_CTRL_C_FLAG

```

00000000G FF      01 88 0000 CRD$SET_CTRL_C_FLAG::
      BISB2 #1, aCRD$GA_DS_FLAGS ; 0258
05 00007   RSB      ; 0261

```

; Routine Size: 8 bytes, Routine Base: CODE + 0030

```

: 0262 1 xSBTTL 'CRD$Clear_Ctrl_C_Flag Routine'
: 0263 1
: 0264 1 GLOBAL ROUTINE CRD$Clear_Ctrl_C_Flag : JSB_NO_REGS NOVALUE =
: 0265 1
: 0266 1 !**
: 0267 1 ! Functional Description:
: 0268 1 !
: 0269 1 ! Clear the DS$GL_Flags <DS$V_CtrlC> bit.
: 0270 1 !
: 0271 1 ! Formal Input Parameters:
: 0272 1 !
: 0273 1 ! None
: 0274 1 !
: 0275 1 ! Formal Output Parameters:
: 0276 1 !
: 0277 1 ! None
: 0278 1 !
: 0279 1 ! Side Effects:
: 0280 1 !
: 0281 1 ! None
: 0282 1 !
: 0283 1 ! Completion Codes:
: 0284 1 !
: 0285 1 ! None
: 0286 1 ! --

```

ZZ-ENSAB-2.0 CRD\$Clear_Ctrl_C_Flag Routine L 3
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame L3 Sequence 449
 01-00 CRD\$Clear_Ctrl_C_Flag Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (19)

```

; 0287 2 BEGIN      ! Routine CRD$Clear_Ctrl_C_Flag
; 0288 2 BIND
; 0289 2   DS$GL_Flags = (.CRD$GA_DS_Flags);
; 0290 2
; 0291 2   DS$GL_Flags <DS$V_CtrlC> = False;
; 0292 2   ! Clear the bit, so that it appears no ^C was typed.
; 0293 2   RETURN
; 0294 1 END;      ! Routine CRD$Clear_Ctrl_C_Flag

```

.EXTRN CRD\$CLEAR_CTRL_C_FLAG

```

00000000G FF      01 8A 0000 CRD$CLEAR_CTRL_C_FLAG::
      BICB2  #1, aCRD$GA_DS_FLAGS      ; 0291
      05 00007 RSB      ; 0294

```

; Routine Size: 8 bytes, Routine Base: CODE + 0038


```

: 0295 1 xSBTTL 'CRD$Check_Ctrl_C Routine'
: 0296 1
: 0297 1 GLOBAL ROUTINE CRD$Check_Ctrl_C : JSB_NO_REGS =
: 0298 1
: 0299 1 !*
: 0300 1 ! Functional Description:
: 0301 1 !
: 0302 1 ! Return the setting of the $DS_GL_Flags <DS$V_CtrlC> bit.
: 0303 1 !
: 0304 1 ! Formal Input Parameters:
: 0305 1 !
: 0306 1 ! None
: 0307 1 !
: 0308 1 ! Formal Output Parameters:
: 0309 1 !
: 0310 1 ! None
: 0311 1 !
: 0312 1 ! Side Effects:
: 0313 1 !
: 0314 1 ! None
: 0315 1 !
: 0316 1 ! Completion Codes:
: 0317 1 !
: 0318 1 ! True - bit was set
: 0319 1 ! False - bit was clear
: 0320 1 ! --

```

ZZ-ENSAB-2.0 CRD\$Check_Ctrl_C Routine N 3
CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame N3 Sequence 451
01-00 CRD\$Check_Ctrl_C Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (21)

```
; 0321 2 BEGIN      ! Routine CRD$Check_Ctrl_C
; 0322 2 BIND
; 0323 2 DS$GL_Flags = (.CRD$GA_DS_Flags);
; 0324 2
; 0325 2 RETURN (.DS$GL_Flags <DS$V_Ctrl_C>);
; 0326 1 END;      ! Routine CRD$Check_Ctrl_C
```

```
50 00000000G FF      01      00 EF 00000 CRD$CHECK_CTRL_C::
    EXTZV      #0, #1, @CRD$GA_DS_FLAGS, R0      ; 0325
    05 00009   RSB      ; 0326
```

; Routine Size: 10 bytes, Routine Base: CODE + 0040

CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 Page 22

01-00 CRD\$Check_Ctrl_C Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (22)

; 0327 1 END ! End of CRDCTRLC module
; 0328 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
DATA	9	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	74	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$CRD_LITERALS	Macro	Lib03	82	
\$EQLST	Macro	Lib04	82	
\$ER	Comptime	98		
\$MODULE	Bind	98		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal		82	
AUTOSK_EXIT_CONTROL_C	Literal		82	
AUTOSK_EXIT_DUMMY_2	Literal		82	
AUTOSK_EXIT_DUMMY_3	Literal		82	
AUTOSK_EXIT_ERRORS_COMPLETE	Literal		82	
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal		82	
AUTOSK_EXIT_INTERNAL_ERROR	Literal		82	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal		82	
AUTOSK_EXIT_LAST_REASON	Literal	82	82	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal		82	
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal		82	
AUTOSK_EXIT_NOERRORS_PREP	Literal	82		
CRD\$CHECK_CTRL_C	GlobRout	297 Lib03e	78f	
CRD\$CLEAR_CTRL_C_FLAG	GlobRout	264 Lib03e		
CRD\$CLEAR_CTRL_C_HANDLERS	GlobRout	134 Lib03e	69f	
CRD\$DISABLE_CTRL_C	GlobRout	198 Lib03e	75f	
CRD\$ENABLE_CTRL_C	GlobRout	164 Lib03e	72f	
CRD\$GA_DS_CTRL_C_FIRST	External	Lib03	126a=	158a=
CRD\$GA_DS_CTRL_C_SECOND	External	Lib03	128a=	159a=
CRD\$GA_DS_FLAGS	External	Lib03	190.	223. 256. 289. 323.
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	82		
CRD\$K_ACTION_RANGE_ERROR	Literal	82		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	82		
CRD\$K_ADVANCE_GENERAL_COM	Literal	82		
CRD\$K_ADVANCE_STATE	Literal	82		
CRD\$K_ALLOCATION_ERROR	Literal	82		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	82		
CRD\$K_AUTOSIZER_ERROR	Literal	82		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	82		
CRD\$K_BAD_ACTION_NUMBER	Literal	82		

Symbol	Type	Defined	Referenced ...
CRD\$K_BAD_TYPECODE_ERROR	Literal	82	
CRD\$K_BASE_SYSTEM_IDC	Literal	82	
CRD\$K_BASE_SYSTEM_LESI	Literal	82	
CRD\$K_BASE_SYSTEM_NULL	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	82	
CRD\$K_CRD_INITIALIZATION	Literal	82	
CRD\$K_CREATE_HST	Literal	82	
CRD\$K_DATA_LENGTH_ERROR	Literal	82	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_BLINK	Literal	82	
CRD\$K_DDB_FLINK	Literal	82	
CRD\$K_DDB_LAST_ENTRY	Literal	82	
CRD\$K_DDB_MEMORY_SIZE	Literal	82	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	82	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	82	
CRD\$K_DDB_PTABLE_ENTRY	Literal	82	
CRD\$K_DDB_STATUS	Literal	82	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	82	
CRD\$K_DEVICE_NAME	Literal	82	
CRD\$K_DIAGNOSTIC_ERROR	Literal	82	
CRD\$K_DIAGNOSTIC_NAME	Literal	82	
CRD\$K_DONE_GENERAL_COMS	Literal	82	
CRD\$K_DJ_NOTHING	Literal	82	
CRD\$K_DUMMY_10	Literal	82	
CRD\$K_DUMMY_11	Literal	82	
CRD\$K_DUMMY_12	Literal	82	
CRD\$K_DUMMY_13	Literal	82	
CRD\$K_DUMMY_3	Literal	82	
CRD\$K_DUMMY_4	Literal	82	
CRD\$K_DUMMY_5	Literal	82	
CRD\$K_DUMMY_6	Literal	82	
CRD\$K_DUMMY_7	Literal	82	
CRD\$K_DUMMY_8	Literal	82	
CRD\$K_DUMMY_9	Literal	82	
CRD\$K_EXIT_CRD	Literal	82	
CRD\$K_HOOK_POINT	Literal	82	
CRD\$K_HS_INTERNAL_ERROR	Literal	82	
CRD\$K_IDC_EVDLB	Literal	82	
CRD\$K_IDC_EVDLC	Literal	82	
CRD\$K_IDC_EVDLD	Literal	82	
CRD\$K_IDC_EVRAD_0	Literal	82	
CRD\$K_IDC_EVRAD_1	Literal	82	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_INTERNAL_ERROR	Literal	82	
CRD\$K_LAST_ACTION_ROUTINE	Literal	82	
CRD\$K_LAST_ENTRY	Literal	82	
CRD\$K_LAST_FUNCTION	Literal	82	
CRD\$K_LAST_HOOK_POINT	Literal	82	

Symbol	Type	Defined	Referenced ...
CRD\$K_LAST_INTERNAL_ERROR	Literal	82	
CRD\$K_LAST_TYPE	Literal	82	
CRD\$K_LESI_ENWCA	Literal	82	
CRD\$K_LESI_EVRMB_0	Literal	82	
CRD\$K_LESI_EVRMB_1	Literal	82	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_LEVEL_4_PASSED	Literal	82	
CRD\$K_LOAD_AUTOSIZER	Literal	82	
CRD\$K_LOAD_ERROR	Literal	82	
CRD\$K_LOAD_GENERAL_COM	Literal	82	
CRD\$K_LOAD_LOAD_COM	Literal	82	
CRD\$K_LOAD_SELECT_COM	Literal	82	
CRD\$K_LOAD_SET_EVENT_COM	Literal	82	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	82	
CRD\$K_LOAD_START_COM	Literal	82	
CRD\$K_LOAD_SUP_FILE	Literal	82	
CRD\$K_MM_INTERNAL_ERROR	Literal	82	
CRD\$K_NEW_LINE	Literal	82	
CRD\$K_PREPARATION_ERROR	Literal	82	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	82	
CRD\$K_RUNTIME	Literal	82	
CRD\$K_SAME_LINE	Literal	82	
CRD\$K_SET_EVENT_ARGS	Literal	82	
CRD\$K_SET_FLAGS_ARGS	Literal	82	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	82	
CRD\$K_START	Literal	82	
CRD\$K_START_AUTOSIZER	Literal	82	
CRD\$K_START_ERROR	Literal	82	
CRD\$K_START_QUALIFIERS	Literal	82	
CRD\$K_STAR_LINE	Literal	82	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	82	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	82	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	82	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	82	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	82	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	82	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	82	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	82	
CRD\$K_STATE_DUMMY_1	Literal	82	
CRD\$K_STATE_DUMMY_10	Literal	82	
CRD\$K_STATE_DUMMY_12	Literal	82	
CRD\$K_STATE_DUMMY_13	Literal	82	
CRD\$K_STATE_DUMMY_2	Literal	82	
CRD\$K_STATE_DUMMY_3	Literal	82	
CRD\$K_STATE_DUMMY_4	Literal	82	
CRD\$K_STATE_DUMMY_6	Literal	82	
CRD\$K_STATE_DUMMY_7	Literal	82	
CRD\$K_STATE_DUMMY_8	Literal	82	
CRD\$K_STATE_EXIT_CRD	Literal	82	
CRD\$K_STATE_INTERNAL_ERROR	Literal	82	
CRD\$K_STATE_LAST_STATE	Literal	82	

Symbol	Type	Defined	Referenced ...
CRD\$K_STATE_LEVEL_4_PASSED	Literal	82	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	82	
CRD\$K_STATE_LOAD_ERROR	Literal	82	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	82	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	82	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	82	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	82	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	82	
CRD\$K_STATE_LOAD_START_COM	Literal	82	
CRD\$K_STATE_PREPARATION_ERROR	Literal	82	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	82	
CRD\$K_STATE_START	Literal	82	
CRD\$K_STATE_START_AUTOSIZER	Literal	82	
CRD\$K_STATE_START_ERROR	Literal	82	
CRD\$K_TEST_START_TEXT	Literal	82	
CRD\$K_TQ_INTERNAL_ERROR	Literal	82	
CRD\$K_TYPECODE	Literal	82	
CRD\$K_UA_0_EVDLB	Literal	82	
CRD\$K_UA_0_EVDLC	Literal	82	
CRD\$K_UA_0_EVDLD	Literal	82	
CRD\$K_UA_0_EVRLA_0	Literal	82	
CRD\$K_UA_0_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UA_1_EVDLB	Literal	82	
CRD\$K_UA_1_EVDLC	Literal	82	
CRD\$K_UA_1_EVDLD	Literal	82	
CRD\$K_UA_1_EVRLA_0	Literal	82	
CRD\$K_UA_1_EVRLA_1	Literal	82	
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UA_2_EVDLB	Literal	82	
CRD\$K_UA_2_EVDLC	Literal	82	
CRD\$K_UA_2_EVDLD	Literal	82	
CRD\$K_UA_2_EVRLA_0	Literal	82	
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UA_3_EVDLB	Literal	82	
CRD\$K_UA_3_EVDLC	Literal	82	
CRD\$K_UA_3_EVDLD	Literal	82	
CRD\$K_UA_3_EVRLA_0	Literal	82	
CRD\$K_UA_3_EVRLA_1	Literal	82	
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	82	
CRD\$SET_CTRL_C_FLAG	GlobRout	231 Lib03e	
CRD\$SET_CTRL_C_HANDLERS	GlobRout	101 Lib03e	66f
DS\$GL_FLAGS	Bind	190 192=	
Bind	223	225=	
Bind	256	258=	
Bind	289	291=	
Bind	323	325=	
DS\$V_CTRL_C	Macro	Lib01 258 291 325	
DS\$V_DISABLCC	Macro	Lib01 192 225	
FALSE	Literal	Lib03 192 291	
FIRST_HANDLER	RoutForm	101 126.	
GET1ST	Macro	Lib04 82	
GET2ND	Unbound	82	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	82	

Symbol	Type	Defined	Referenced	...
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	82		
HS\$K_ACTION_ADVANCE_STATE	Literal	82		
HS\$K_ACTION_CHANGE_TABLE	Literal	82		
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	82		
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	82		
HS\$K_ACTION_DO_NOTHING	Literal	82		
HS\$K_ACTION_DUMMY_3	Literal	82		
HS\$K_ACTION_DUMMY_4	Literal	82		
HS\$K_ACTION_DUMMY_5	Literal	82		
HS\$K_ACTION_DUMMY_6	Literal	82		
HS\$K_ACTION_INIT_HS	Literal	82		
HS\$K_ACTION_INTERNAL_ERROR	Literal	82		
HS\$K_ACTION_LAST_ACTION	Literal	82		
HS\$K_ACTION_LOAD_ERROR	Literal	82		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	82		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	82		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	82		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	82		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	82		
HS\$K_ACTION_LOAD_START_COM	Literal	82		
HS\$K_ACTION_PREPARATION_ERROR	Literal	82		
HS\$K_ACTION_START_ERROR	Literal	82		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	82		
HS\$K_STATE_CHANGE_TABLE	Literal	82		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	82		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	82		
HS\$K_STATE_DUMMY_1	Literal	82		
HS\$K_STATE_DUMMY_2	Literal	82		
HS\$K_STATE_DUMMY_3	Literal	82		
HS\$K_STATE_DUMMY_4	Literal	82		
HS\$K_STATE_DUMMY_6	Literal	82		
HS\$K_STATE_INIT_HS	Literal	82		
HS\$K_STATE_INTERNAL_ERROR	Literal	82		
HS\$K_STATE_LAST_STATE	Literal	82		
HS\$K_STATE_LOAD_ERROR	Literal	82		
HS\$K_STATE_LOAD_GENERAL_COM	Literal	82		
HS\$K_STATE_LOAD_LOAD_COM	Literal	82		
HS\$K_STATE_LOAD_SELECT_COM	Literal	82		
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	82		
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	82		
HS\$K_STATE_LOAD_START_COM	Literal	82		
HS\$K_STATE_PREPARATION_ERROR	Literal	82		
HS\$K_STATE_START_ERROR	Literal	82		
JSB_NO_REGS	Linkage	Lib03 69	72	75 78 134 164 198 231 264 297
JSB_RO_R1	Linkage	Lib03 66	101	
MEN\$K_HS_STATE_TABLE	Literal	82		
MEN\$K_MM_STATE_TABLE	Literal	82		
MEN\$K_TQ_STATE_TABLE	Literal	82		
MENU\$K_EXIT_AUTOSIZER_ERROR	Literal	82		
MENU\$K_EXIT_INTERNAL_ERROR	Literal	82		
MENU\$K_EXIT_LAST_REASON	Literal	82		

ZZ-ENSAB-2.0 CRD\$Check_Ctrl_C Routine
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746
 01-00 CRD\$Check_Ctrl_C Routine 3-Jan-1985 17:02:02 [DS.CRD.V020]CRDCTRLC.B32;1 (22)

G 4

19-Sep-1985

Fiche 3 Frame G4

Sequence 457

Symbol	Type	Defined	Referenced ...
MENU\$K_EXIT_OPERATOR_ABORT	Literal	82	
MENU\$K_EXIT_OPERATOR_STOP	Literal	82	
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	82	
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	82	
MM\$K_ACTION_ADVANCE_STATE	Literal	82	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	82	
MM\$K_ACTION_BUILD_DDBS	Literal	82	
MM\$K_ACTION_BUILD_HSTS	Literal	82	
MM\$K_ACTION_CHANGE_TABLE	Literal	82	
MM\$K_ACTION_DONE_INITS	Literal	82	
MM\$K_ACTION_DO_NOTHING	Literal	82	
MM\$K_ACTION_DUMMY_3	Literal	82	
MM\$K_ACTION_DUMMY_4	Literal	82	
MM\$K_ACTION_DUMMY_5	Literal	82	
MM\$K_ACTION_DUMMY_6	Literal	82	
MM\$K_ACTION_DUMMY_7	Literal	82	
MM\$K_ACTION_DUMMY_8	Literal	82	
MM\$K_ACTION_INTERNAL_ERROR	Literal	82	
MM\$K_ACTION_LAST_ACTION	Literal	82	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	82	
MM\$K_ACTION_MENU_PROMPT	Literal	82	
MM\$K_ACTION_PRINT_MENU	Literal	82	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	82	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	82	
MM\$K_ACTION_START_AUTOSIZER	Literal	82	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	82	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	82	
MM\$K_STATE_BUILD_DDBS	Literal	82	
MM\$K_STATE_BUILD_HSTS	Literal	82	
MM\$K_STATE_CHANGE_TABLE	Literal	82	
MM\$K_STATE_DONE_INITS	Literal	82	
MM\$K_STATE_DUMMY_1	Literal	82	
MM\$K_STATE_DUMMY_2	Literal	82	
MM\$K_STATE_DUMMY_3	Literal	82	
MM\$K_STATE_DUMMY_5	Literal	82	
MM\$K_STATE_DUMMY_7	Literal	82	
MM\$K_STATE_DUMMY_8	Literal	82	
MM\$K_STATE_INTERNAL_ERROR	Literal	82	
MM\$K_STATE_LAST_STATE	Literal	82	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	82	
MM\$K_STATE_MENU_PROMPT	Literal	82	
MM\$K_STATE_PRINT_MENU	Literal	82	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	82	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	82	
MM\$K_STATE_START	Literal	82	
MM\$K_STATE_START_AUTOSIZER	Literal	82	
MODNAM	Macro	Lib01 98	
NUL2ND	Macro	Lib04 82	
SECOND_HANDLER	RoutForm	101 128.	
TQ\$K_ACTION_ADVANCE_STATE	Literal	82	
TQ\$K_ACTION_CHANGE_TABLE	Literal	82	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	82	
TQ\$K_ACTION_DO_NOTHING	Literal	82	

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_DUMMY_3	Literal	82		
TQ\$K_ACTION_DUMMY_4	Literal	82		
TQ\$K_ACTION_DUMMY_5	Literal	82		
TQ\$K_ACTION_GET_DDB	Literal	82		
TQ\$K_ACTION_INIT_TQ	Literal	82		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	82		
TQ\$K_ACTION_LAST_ACTION	Literal	82		
TQ\$K_STATE_CHANGE_TABLE	Literal	82		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	82		
TQ\$K_STATE_DUMMY_1	Literal	82		
TQ\$K_STATE_DUMMY_2	Literal	82		
TQ\$K_STATE_DUMMY_3	Literal	82		
TQ\$K_STATE_DUMMY_4	Literal	82		
TQ\$K_STATE_DUMMY_5	Literal	82		
TQ\$K_STATE_GET_DDB	Literal	82		
TQ\$K_STATE_INIT_TQ	Literal	82		
TQ\$K_STATE_INTERNAL_ERROR	Literal	82		
TQ\$K_STATE_LAST_STATE	Literal	82		
TRUE	Literal	Lib03 225	258	

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDCTRLC.B32;1	
2	Module	CRDCTRLC	
53	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	
56	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	
59	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	
62	Library #4	SYSS\$COMMON:[SYSLIB]LIB.L32;2	
328	Eludom	CRDCTRLC	

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

; Library Statistics
;
;
;
; File

Symbols
--
Pages Processing

Total
Loaded
Percent
Mapped Time

22-ENSAB-2.0 CRD\$Check_Ctrl_C Routine I 4
 CRDCTRLC *** CRDCTRLC Module 19-Sep-1985 16:34:25 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame 14 Sequence 459
 01-00 CRD\$Check_Ctrl_C Routine 3-Jan-1985 17:02:02 (DS.CRD.V020)CRDCTRLC.B32;1 (22) Page 29

```

;
; DISK$DIAGPACK03:(DS.LIBRARIES)DS.L32;17
;      671      3      0      46      00:00.1
; DISK$DIAGPACK03:(DS.LIBRARIES)DIAG.L32;30
;      923      0      0      94      00:00.2
; DISK$DIAGPACK03:(DS.CRD.V020)CRD.L32;1
;      486      15      3      62      00:00.2
; SYS$COMMON:(SYSLIB)LIB.L32;2      18619      3      0      1000      00:04.4

```

: COMMAND QUALIFIERS

: BLISS CRDCTRLC.B32/LIST=CRDCTRLC.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDCTRLC.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

```

; Size: 74 code + 9 data bytes
; Run Time: 00:19.0
; Elapsed Time: 00:33.3
; Lines/CPU Min: 1037
; Lexemes/CPU-Min: 55658
; Memory Used: 128 pages
; Compilation Complete

```

```
; 0001 0 xTITLE '*** CRDDDB Module'
; 0002 0 MODULE CRDDDB ( ! Build the Device Data Blocks and access them
; 0003 0 IDENT = '01-11'
; 0004 0 ) =
; 0005 0 !*
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !
```

```

: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : Build the Device Data Blocks (dynamically) and define some associated data
: 0032 0 : structures and accessing routines.
: 0033 0 :
: 0034 0 : Author:
: 0035 0 :
: 0036 0 : Jack Stansbury
: 0037 0 :
: 0038 0 : Creation Date:
: 0039 0 :
: 0040 0 : May 8, 1982 (Saturday, nearing project's scheduled end-of-coding phase).
: 0041 0 :
: 0042 0 : Version:
: 0043 0 :
: 0044 0 : 6.9
: 0045 0 :
: 0046 0 : Modified By:
: 0047 0 :
: 0048 0 : 01 Jack Stansbury, Version 1.0, June 21, 1982
: 0049 0 : Added routine CRD$Dispose (ala Pascal dispose) and changed 'New' routine to
: 0050 0 : CRD$New and made both routines global. This is primarily for the Menu Test.
: 0051 0 :
: 0052 0 : 02 Jack Stansbury, Version 1.0, July 16, 1982
: 0053 0 : Added functionality for Menu Test. Changed the CRD$F_'s to CRD$V_'s. Changed
: 0054 0 : the error reporting for the New routine.
: 0055 0 :
: 0056 0 : 03 Jack Stansbury, Version 1.1, July 22, 1982
: 0057 0 : Changed the CRD$New routine to return the size of the block of allocated memory.
: 0058 0 : Also changed the DDB's to store the size in the high byte of the Status longword.
: 0059 0 :
: 0060 0 : 04 Jack Stansbury, Version 1.1, July 27, 1982
: 0061 0 : Added debugging information to the Dispose and New routines.
: 0062 0 :
: 0063 0 : 05 Jack Stansbury, Version 1.1, August 20, 1982
: 0064 0 : Changed the fields in the DDBs, and took the AutoSizer out from the DDBs.
: 0065 0 :
: 0066 0 : 06 Jack Stansbury, Version 1.1, August 31, 1982
: 0067 0 : Added a routine to initialize all the status bits in a DDB.
: 0068 0 :
: 0069 0 : 07 Jack Stansbury, Version 1.1, September 21, 1982
: 0070 0 : Changed the Init_DDB_Status routine because I changed a lot of the DDB status flags
: 0071 0 :
: 0072 0 : 08 Jack Stansbury, Version 1.1, September 30, 1982
: 0073 0 : Took out the Insert_PTable_Ptrs routine.
: 0074 0 :
: 0075 0 : 09 Jack Stansbury, Version 1.1, October 1, 1982
: 0076 0 : Changed much of the code in the Build_DDB routine. It was wrong.
: 0077 0 :
: 0078 0 : 10 John C'ukaj Version 1.2 8-Apr-1983

```

ZZ-ENSAB-2.0 *** CRDDDB Module L 4
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (2)

Fiche 3 Frame L4
Page 3

Sequence 462

```
: 0079 0 ! - Build DDB's for LESI/AZTEC and UDA/RA-disk based
: 0080 0 ! systems
: 0081 0 !
: 0082 0 ! 11 Scott Cohen Version 1.4 21-Sep-1983
: 0083 0 ! - Add ENWCA DDB for LESI/AZTEC system
: 0084 0 !
: 0085 0 ! 12 Ron Parker Version 1.5 18-Jun-1984
: 0086 0 ! - Comment out VS125 code
: 0087 0 !
: 0088 0 ! -
```

```

; 0089 0 xSBTTL 'Libraries'
; 0090 1 BEGIN          ! Begin the CRDDDB module
; 0091 1
; 0092 1 LIBRARY
; 0093 1 '$DS';          ! Use Ds.L32 first
; 0094 1
; 0095 1 LIBRARY
; 0096 1 '$Diag';        ! Use Diag.L32 second
; 0097 1
; 0098 1 LIBRARY
; 0099 1 '$CRD';         ! Use CRD.L32 third
; 0100 1
; 0101 1 LIBRARY
; 0102 1 'Sys$Library:Lib'; ! Use Lib as last resort

```

ZCO

```

: 0103 1 %SBTTL 'Table of Contents'
: 0104 1
: 0105 1 FORWARD ROUTINE
: 0106 1   CRD$Build_DDBs      : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0107 1       ! Build the queue of DDBs
: 0108 1
: 0109 1   CRD$Dispose      : ADDRESSING_MODE (LONG_RELATIVE),      ![01]
: 0110 1       ! Dispose of a block of non-paged pool memory.      ![01]
: 0111 1
: 0112 1   CRD$Init_DDB_Status : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),      ![06]
: 0113 1       ! Initialize the status bits in a DDB                ![06]
: 0114 1
: 0115 1   CRD$New          : ADDRESSING_MODE (LONG_RELATIVE);      ![01]
: 0116 1       ! Allocate a block of non paged pool memory.        ![01]

```

Z C O

ZZ-ENSAB-2.0 Included Macros and Literals B 5
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 Page 6
01-11 Included Macros and Literals 3-Jan-1985 17:02:03 (DS.CRD.V020)CRDDDB.B32;1 (5) Sequence 465

```
; 0117 1 xSBTTL 'Included Macros and Literals'
; 0118 1
; 0119 1 $DS_DSADef; ! Define the DSA bits
; 0120 1 $CRD_Literals; ! Any included macros and literals
```



```
; 0121 1 xSBTTL 'Psect Definitions'
; 0122 1
; 0123 1 PSECT
; 0124 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0125 1
; 0126 1 PSECT
; 0127 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0128 1
; 0129 1 PSECT
; 0130 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0131 1
; 0132 1 PSECT
; 0133 1     GLOBAL  = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Module-Global Static Storage D 5 19-Sep-1985 Fiche 3 Frame DS Sequence 467
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 Page 8
01-11 Module-Global Static Storage 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (7)

```
: 0134 1 xSBTTL 'Module-Global Static Storage'
: 0135 1
: 0136 1 ModNam ('CRDDDB'); ! Module name for ErrSup macro
```

```
: 0137 1 $SBTTL 'Global Own Storage'
: 0138 1
: 0139 1 GLOBAL
: 0140 1 CRD$GA_Current_Diagnostic, ! A pointer to the DDB for which we are now running a diagnostic
: 0141 1
: 0142 1 CRD$GA_First_Diagnostic : LONG INITIAL (LONG (0));
: 0143 1 ! A pointer to the first DDB in the queue (i.e., the head).
: 0144 1 ! Some routines
: 0145 1 ! (e.g., CRD$Advance_Diagnostic) depend on this! [10]
: 0146 1
```

```

; 0147 1 *SBTTL 'CRD$Build_DDBs Routine'
; 0148 1
; 0149 1 GLOBAL ROUTINE CRD$Build_DDBs : NOVALUE =
; 0150 1
; 0151 1 !**
; 0152 1 ! Functional Description:
; 0153 1 !
; 0154 1 ! Build the list of Device_Data_Blocks on the basis of base system type.      [10]
; 0155 1 ! Use the VAX queue instructions to implement
; 0156 1 ! this list. The Data Blocks will be allocated dynamically.
; 0157 1 !
; 0158 1 !
; 0159 1 ! Implicit Inputs:      [10]
; 0160 1 !
; 0161 1 ! The AUTOSIZER has been run and P-Tables exist.
; 0162 1 ! The base system type location (CRD$GB_Base_System) has been
; 0163 1 ! loaded with correct base system code.
; 0164 1 !
; 0165 1 ! Formal Input Parameters:
; 0166 1 !
; 0167 1 ! None
; 0168 1 !
; 0169 1 ! Formal Output Parameters:
; 0170 1 !
; 0171 1 ! None
; 0172 1 !
; 0173 1 ! Side Effects:
; 0174 1 !
; 0175 1 ! None
; 0176 1 !
; 0177 1 ! Completion Codes:
; 0178 1 !
; 0179 1 ! None
; 0180 1 ! --

```

```

; 0181 2 BEGIN      ! Routine CRD$Build_DDBs
; 0182 2 MACRO      ![[09]]
; M 0183 2 Print_DDB_Status (DDB) =      ![[09]]
; M 0184 2 IF (.CRD$GB_CRD_Debug) THEN      ![[09]]
; M 0185 2 BEGIN      ![[09]]
; M 0186 2 LOCAL      ![[09]]
; M 0187 2 DDB_Ptr : REF Device_Data_Block_Structure;      ![[09]]
; M 0188 2      ![[09]]
; M 0189 2 DDB_Ptr = DDB;      ![[09]]
; M 0190 2 $CRD_Print ($ASCIC ('*** Init_DDB_Status: ',      ![[09]]
; M 0191 2 'Initializing the !XL DDB status bits to: !XL!/''),      ![[09]]
; M 0192 2 .DDB_Ptr, .DDB_Ptr [CRD$K_DDB_Status]);      ![[09]]
; M 0193 2 END      ![[09]]
; 0194 2 x;      ![[09]]
; 0195 2
; 0196 2 MACRO      ![[01]]
; M 0197 2 Allocate_DDB (Diag_String) =      ![[01]]
; M 0198 2 Size = CRD$K_DDB_Size;      ![[03]]
; M 0199 2 IF (NOT CRD$New (Size, DDB_Ptr)) THEN      ![[09]]
; M 0200 2 BEGIN      ![[01]]
; M 0201 2 CRD$Internal_Error (CRD$K_Allocation_Error, 0, 0)      ![[02]]
; M 0202 2 END;      ![[09]]
; M 0203 2
; M 0204 2 IF .CRD$GB_CRD_Debug THEN      ![[09]]
; M 0205 2 $CRD_Print ($ASCIC (' - DDB_Ptr [' , Diag_String, ' ] = !XL(X)!/''), .DDB_Ptr);      ![[09]]
; 0206 2 x;      ![[01]]
; 0207 2
; 0208 2 LOCAL      ![[03]]
; 0209 2 Size, ! The size of the allocated block      ![[03]]
; 0210 2 Prev_DDB_Ptr, ! The previously allocated DDB
; 0211 2 DDB_Ptr : REF Device_Data_Block_Structure;      ![[09]]
; 0212 2 ! The allocated DDB.      ![[09]]
; 0213 2
; 0214 2 BUILTIN      ![[09]]
; 0215 2 INSQUE; ! Use the VAX InsQue machine instruction.      ![[09]]
; 0216 2
; 0217 2

```

```

: 0218 2 !* [10]
: 0219 2 ! Build DDB's on the basis of base system type
: 0220 2 !-
: 0221 2 SELECTONE .CRD$GB_Base_System OF
: 0222 2 SET
: 0223 2 [CRD$K_Base_System_IDC]:
: 0224 3 BEGIN
: 0225 3 !*
: 0226 3 ! IDC based System
: 0227 3 ! Allocate a Device Data Block for EVRAD 0 (for the R80 or the RL02 test):
: 0228 3 !-
: 0229 3
: 0230 3 Allocate_DDB ('EVRAD_0');
: 0231 3
: 0232 3 DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr; [[09]
: 0233 3 DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr; [[09]
: 0234 3
: 0235 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL IDC_Hdwr_Sprt_Table [CRD$K_IDC EVRAD_0, 0];
: 0236 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0237 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0238 3
: 0239 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits [[09]
: 0240 3
: 0241 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True; [[09]
: 0242 3 ! This is an essential device - it must be tested
: 0243 3
: 0244 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = True; [[09]
: 0245 3 ! Check the Device_Type field in the Test_Start_Text when outputting
: 0246 3 ! the text. This is because this diagnostic will test either the R80 or
: 0247 3 ! the RL02 on DQA0, depending on what is there.
: 0248 3
: 0249 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size; [[09]
: 0250 3 ! Store the actual size of the DDB. [[03]
: 0251 3
: 0252 3 Print_DDB_Status (.DDB_Ptr); [[09]
: 0253 3 Prev_DDB_Ptr = .DDB_Ptr; [[09]
: 0254 3
: 0255 3 CRD$GA_First_Diagnostic = .DDB_Ptr; [[09]
: 0256 3 ! This will point to the EVRAD_0 DDB. It will be the first one. [[05]
: 0257 3
: 0258 3 CRD$GA_Current_Diagnostic = .DDB_Ptr; [[09]
: 0259 3 ! This will be the current DDB also. [[05]
: 0260 3
: 0261 3 !*
: 0262 3 ! Allocate a Device Data Block for EVRAD_1 (for the RL02 test):
: 0263 3 !-
: 0264 3
: 0265 3 Allocate_DDB ('EVRAD_1');
: 0266 3
: 0267 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr); [[09]
: 0268 3
: 0269 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL IDC_Hdwr_Sprt_Table [CRD$K_IDC EVRAD_1, 0];
: 0270 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0271 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0272 3

```

```

; 0273 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
; 0274 3
; 0275 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]
; 0276 3 ! This is an essential device - it must be tested
; 0277 3
; 0278 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
; 0279 3 ! Store the actual size of the DDB.      ![[03]
; 0280 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
; 0281 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
; 0282 3
; 0283 3 !+
; 0284 3 ! Allocate a Device Data Block for EVDLB (for the DMF32S device - the Combo sync port):
; 0285 3 !-
; 0286 3
; 0287 3 Allocate_DDB ('EVDLB ');
; 0288 3
; 0289 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
; 0290 3
; 0291 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_IDC_Hdwr_Sprt_Table [CRD$K_IDC_EVDLB, 0];
; 0292 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0293 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
; 0294 3
; 0295 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
; 0296 3
; 0297 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
; 0298 3 ! Store the actual size of the DDB.      ![[03]
; 0299 3
; 0300 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
; 0301 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
; 0302 3
; 0303 3 !+
; 0304 3 ! Allocate a Device Data Block for EVDLC (for the DMF32A device - the Combo async port):
; 0305 3 !-
; 0306 3
; 0307 3 Allocate_DDB ('EVDLC ');
; 0308 3
; 0309 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
; 0310 3
; 0311 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_IDC_Hdwr_Sprt_Table [CRD$K_IDC_EVDLC, 0];
; 0312 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0313 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
; 0314 3
; 0315 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
; 0316 3
; 0317 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]
; 0318 3 ! This is an essential device - it must be tested
; 0319 3
; 0320 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
; 0321 3 ! Store the actual size of the DDB.      ![[03]
; 0322 3
; 0323 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
; 0324 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
; 0325 3
; 0326 3 !+
; 0327 3 ! Allocate a Device Data Block for EVDLD (for the DMF32P device - the Combo parallel port):

```

```

: 0328 3  !-
: 0329 3
: 0330 3  Allocate_DDB ('EVDLD ');
: 0331 3
: 0332 3  INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![09]
: 0333 3
: 0334 3  DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_IDC_Hdwr_Sprt_Table [CRD$K_IDC_EVDLD, 0];
: 0335 3  DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0336 3  DDB_Ptr [CRD$K_DDB_PTable_Entry]      = 0;      ![09]
: 0337 3
: 0338 3  CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![09]
: 0339 3
: 0340 3  DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> - .Size;      ![09]
: 0341 3  ! Store the actual size of the DDB.      ![03]
: 0342 3
: 0343 3  Print_DDB_Status (.DDB_Ptr);      ![09]
: 0344 3  RETURN;
: 0345 2  END;
: 0346 2
: 0347 2

```



```

: 0348 2
: 0349 2      !*
: 0350 2      ! LESI/AZTEC disk based system
: 0351 2      !-
: 0352 2      [CRD$K_Base_System_LESI]:
: 0353 3 BEGIN
: 0354 3      !*
: 0355 3      ! Allocate a Device Data Block for EVRMB_0 (for testing Drive 0)
: 0356 3      !-
: 0357 3
: 0358 3      Allocate_DDB ('EVRMB_0');
: 0359 3
: 0360 3      DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr;          ![[09]]
: 0361 3      DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr;          ![[09]]
: 0362 3
: 0363 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_LESI_Hdwr_Sprt_Table [CRD$K_LESI_EVRMB_0, 0];
: 0364 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0365 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0366 3
: 0367 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
: 0368 3
: 0369 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]
: 0370 3      ! This is an essential device - it must be tested
: 0371 3
: 0372 3
: 0373 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]]
: 0374 3      ! Store the actual size of the DDB.          ![[03]]
: 0375 3
: 0376 3      Print_DDB_Status (.DDB_Ptr);          ![[09]]
: 0377 3      Prev_DDB_Ptr = .DDB_Ptr;          ![[09]]
: 0378 3
: 0379 3      CRD$GA_First_Diagnostic = .DDB_Ptr;          ![[09]]
: 0380 3      ! This will point to the EVRMB_0 DDB. It will be the first one. ![[05]]
: 0381 3
: 0382 3      CRD$GA_Current_Diagnostic = .DDB_Ptr;          ![[09]]
: 0383 3      ! This will be the current DDB also.          ![[05]]
: 0384 3
: 0385 3      !*
: 0386 3      ! Allocate a Device Data Block for EVRMB_1 (Drive 1)
: 0387 3      !-
: 0388 3
: 0389 3      Allocate_DDB ('EVRMB_1');
: 0390 3
: 0391 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);          ![[09]]
: 0392 3
: 0393 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_LESI_Hdwr_Sprt_Table [CRD$K_LESI_EVRMB_1, 0];
: 0394 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0395 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0396 3
: 0397 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
: 0398 3
: 0399 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]
: 0400 3      ! This is an essential device - it must be tested
: 0401 3
: 0402 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]]

```



```

; 0443 2      !*
; 0444 2      ! UDA based system with no RA60 Drive 1, RA80 or 81 Drive 0
; 0445 2      !-
; 0446 2      [CRD$K_Base_System_UDA_0]:
; 0447 3 BEGIN
; 0448 3      !*
; 0449 3      ! Allocate a Device Data Block for EVRLA_0 (Drive 0):
; 0450 3      !-
; 0451 3
; 0452 3      Allocate_DDB ('EVRLA_0');
; 0453 3
; 0454 3      DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr;          ![[09]
; 0455 3      DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr;          ![[09]
; 0456 3
; 0457 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_0_Hdwr_Sprt_Table [CRD$K_UDA_0_EVRLA_0, 0];
; 0458 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0459 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
; 0460 3
; 0461 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
; 0462 3
; 0463 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]
; 0464 3      ! This is an essential device - it must be tested
; 0465 3
; 0466 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = True;      ![[09]
; 0467 3      ! Check the Device_Type field in the Test_Start_Text when outputting
; 0468 3      ! the text. This is because this diagnostic will test either the R80 or
; 0469 3      ! the RL02 on DQA0, depending on what is there.
; 0470 3
; 0471 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]
; 0472 3      ! Store the actual size of the DDB.      ![[03]
; 0473 3
; 0474 3      Print_DDB_Status (.DDB_Ptr);          ![[09]
; 0475 3      Prev_DDB_Ptr = .DDB_Ptr;          ![[09]
; 0476 3
; 0477 3      CRD$GA_First_Diagnostic = .DDB_Ptr;          ![[09]
; 0478 3      ! This will point to the EVRLA_0 DDB. It will be the first one.      ![[05]
; 0479 3
; 0480 3      CRD$GA_Current_Diagnostic = .DDB_Ptr;          ![[09]
; 0481 3      ! This will be the current DDB also.      ![[05]
; 0482 3
; 0483 3
; 0484 3      !*
; 0485 3      ! Allocate a Device Data Block for EVDLB (for the DMF32S device - the Combo sync port):
; 0486 3      !-
; 0487 3
; 0488 3      Allocate_DDB ('EVDLB ');
; 0489 3
; 0490 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);          ![[09]
; 0491 3
; 0492 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_0_Hdwr_Sprt_Tab e [CRD$K_UDA_0_EVDLB, 0];
; 0493 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0494 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;          ![[09]
; 0495 3
; 0496 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status b'its      ![[09]
; 0497 3

```

```

: 0498 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0499 3 ! Store the actual size of the DDB.      ![[03]
: 0500 3
: 0501 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0502 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
: 0503 3
: 0504 3 !+
: 0505 3 ! Allocate a Device Data Block for EVDLC (for the DMF32A device - the Combo async port):
: 0506 3 !-
: 0507 3
: 0508 3 Allocate_DDB ('EVDLC ');
: 0509 3
: 0510 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
: 0511 3
: 0512 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_0_Hdwr_Sprt_Table [CRD$K_UDA_0_EVDLC, 0];
: 0513 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0514 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
: 0515 3
: 0516 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
: 0517 3
: 0518 3
: 0519 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0520 3 ! Store the actual size of the DDB.      ![[03]
: 0521 3
: 0522 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0523 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
: 0524 3
: 0525 3 !+
: 0526 3 ! Allocate a Device Data Block for EVDLD (for the DMF32P device - the Combo parallel port):
: 0527 3 !-
: 0528 3
: 0529 3 Allocate_DDB ('EVDLD ');
: 0530 3
: 0531 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
: 0532 3
: 0533 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_0_Hdwr_Sprt_Table [CRD$K_UDA_0_EVDLD, 0];
: 0534 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0535 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
: 0536 3
: 0537 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
: 0538 3
: 0539 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0540 3 ! Store the actual size of the DDB.      ![[03]
: 0541 3
: 0542 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0543 3 RETURN;
: 0544 2 END;
: 0545 2
: 0546 2
  
```

```

: 0547 2      !+
: 0548 2      ! UDA based system with RA60 drive 1, RA80 or 81 Drive 0
: 0549 2      !-
: 0550 2      [CRD$K_Base_System_UDA_1]:
: 0551 3      BEGIN
: 0552 3      !+
: 0553 3      ! Allocate a Device Data Block for EVRLA_0 (for Drive 0):
: 0554 3      !-
: 0555 3
: 0556 3      Allocate_DDB ('EVRLA_0');
: 0557 3
: 0558 3      DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr;          ![[09]]
: 0559 3      DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr;          ![[09]]
: 0560 3
: 0561 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_1_Hdwr_Sprt_Table [CRD$K_UDA_1_EVRLA_0, 0];
: 0562 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0563 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0564 3
: 0565 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
: 0566 3
: 0567 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]
: 0568 3      ! This is an essential device - it must be tested
: 0569 3
: 0570 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = True;      ![[09]]
: 0571 3      ! Check the Device_Type field in the Test_Start_Text when outputting
: 0572 3      ! the text. This is because this diagnostic will test either the R80 or
: 0573 3      ! the RL02 on DQA0, depending on what is there.
: 0574 3
: 0575 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]]
: 0576 3      ! Store the actual size of the DDB.          ![[03]]
: 0577 3
: 0578 3      Print_DDB_Status (.DDB_Ptr);          ![[09]]
: 0579 3      Prev_DDB_Ptr = .DDB_Ptr;          ![[09]]
: 0580 3
: 0581 3      CRD$GA_First_Diagnostic = .DDB_Ptr;          ![[09]]
: 0582 3      ! This will point to the EVRLA_0 DDB. It will be the first one. ![[05]]
: 0583 3
: 0584 3      CRD$GA_Current_Diagnostic = .DDB_Ptr;          ![[09]]
: 0585 3      ! This will be the current DDB also.          ![[05]]
: 0586 3
: 0587 3      !+
: 0588 3      ! Allocate a Device Data Block for EVRLA_1 (for Drive 1):
: 0589 3      !-
: 0590 3
: 0591 3      Allocate_DDB ('EVRLA_1');
: 0592 3
: 0593 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);          ![[09]]
: 0594 3
: 0595 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_1_Hdwr_Sprt_Table [CRD$K_UDA_1_EVRLA_1, 0];
: 0596 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0597 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0598 3
: 0599 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
: 0600 3
: 0601 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]
    
```

```

: 0602 3      ! This is an essential device - it must be tested
: 0603 3
: 0604 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![09]
: 0605 3      ! Store the actual size of the DDB.      ![03]
: 0606 3      Print_DDB_Status (.DDB_Ptr);      ![09]
: 0607 3      Prev_DDB_Ptr = .DDB_Ptr;      ![09]
: 0608 3
: 0609 3      !+
: 0610 3      ! Allocate a Device Data Block for EVDLB (for the DMF32S device - the Combo sync port):
: 0611 3      !-
: 0612 3
: 0613 3      Allocate_DDB ('EVDLB ');
: 0614 3
: 0615 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![09]
: 0616 3
: 0617 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_1_Hdwr_Sprt_Table [CRD$K_UDA_1_EVDLB, 0];
: 0618 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0619 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![09]
: 0620 3
: 0621 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![09]
: 0622 3
: 0623 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![09]
: 0624 3      ! Store the actual size of the DDB.      ![03]
: 0625 3
: 0626 3      Print_DDB_Status (.DDB_Ptr);      ![09]
: 0627 3      Prev_DDB_Ptr = .DDB_Ptr;      ![09]
: 0628 3
: 0629 3      !+
: 0630 3      ! Allocate a Device Data Block for EVDLC (for the DMF32A device - the Combo async port):
: 0631 3      !-
: 0632 3
: 0633 3      Allocate_DDB ('EVDLC ');
: 0634 3
: 0635 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![09]
: 0636 3
: 0637 3      DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_1_Hdwr_Sprt_Table [CRD$K_UDA_1_EVDLC, 0];
: 0638 3      DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0639 3      DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![09]
: 0640 3
: 0641 3      CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![09]
: 0642 3
: 0643 3
: 0644 3      DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![09]
: 0645 3      ! Store the actual size of the DDB.      ![03]
: 0646 3
: 0647 3      Print_DDB_Status (.DDB_Ptr);      ![09]
: 0648 3      Prev_DDB_Ptr = .DDB_Ptr;      ![09]
: 0649 3
: 0650 3      !+
: 0651 3      ! Allocate a Device Data Block for EVDLD (for the DMF32P device - the Combo parallel port):
: 0652 3      !-
: 0653 3
: 0654 3      Allocate_DDB ('EVDLD ');
: 0655 3
: 0656 3      INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![09]

```

ZZ-ENSAB-2.0 CRD\$Build_DDBs Routine D 6
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame D6 Sequence 480
01-11 CRD\$Build_DDBs Routine 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (14) Page 21

```
; 0657 3
; 0658 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_1_Hdwr_Sprt_Table [CRD$K_UDA_1_EVDLD, 0];
; 0659 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0660 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;          ![[09]]
; 0661 3
; 0662 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
; 0663 3
; 0664 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]]
; 0665 3 ! Store the actual size of the DDB.          ![[03]]
; 0666 3
; 0667 3 Print_DDB_Status (.DDB_Ptr);          ![[09]]
; 0668 3 RETURN;
; 0669 2 END;
; 0670 2
; 0671 2
; 0672 2
```

```

: 0673 2
: 0674 2
: 0675 2
: 0676 2 !+
: 0677 2 ! UDA based system with no RA60 Drive 1, RA60 Drive 0
: 0678 2 !-
: 0679 2 [CRD$K_Base_System_UDA_2]:
: 0680 3 BEGIN
: 0681 3 !+
: 0682 3 ! Allocate a Device Data Block for EVRLA_0 (Drive 0):
: 0683 3 !-
: 0684 3
: 0685 3 Allocate_DDB ('EVRLA_0');
: 0686 3
: 0687 3 DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr;      ![[09]]
: 0688 3 DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr;      ![[09]]
: 0689 3
: 0690 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_2_Hdwr_Sprt_Table [CRD$K_UDA_2_EVRLA_0, 0];
: 0691 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0692 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
: 0693 3
: 0694 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]]
: 0695 3
: 0696 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      .[[09]]
: 0697 3 ! This is an essential device - it must be tested
: 0698 3
: 0699 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = True;      ![[09]]
: 0700 3 ! Check the Device_Type field in the Test_Start_Text when outputting
: 0701 3 ! the text. This is because this diagnostic will test either the R80 or
: 0702 3 ! the RL02 on DQA0, depending on what is there.
: 0703 3
: 0704 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]]
: 0705 3 ! Store the actual size of the DDB.      ![[03]]
: 0706 3
: 0707 3 Print_DDB_Status (.DDB_Ptr);      ![[09]]
: 0708 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]]
: 0709 3
: 0710 3 CRD$GA_First_Diagnostic = .DDB_Ptr;      ![[09]]
: 0711 3 ! This will point to the EVRLA_0 DDB. It will be the first one.      ![[05]]
: 0712 3
: 0713 3 CRD$GA_Current_Diagnostic = .DDB_Ptr;      ![[09]]
: 0714 3 ! This will be the current DDB also.      ![[05]]
: 0715 3
: 0716 3
: 0717 3 !+
: 0718 3 ! Allocate a Device Data Block for EVDLB (for the DMF32S device - the Combo sync port):
: 0719 3 !-
: 0720 3
: 0721 3 Allocate_DDB ('EVDLB ');
: 0722 3
: 0723 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]]
: 0724 3
: 0725 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_2_Hdwr_Sprt_Table [CRD$K_UDA_2_EVDLB, 0];
: 0726 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0727 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      [[09]]

```



```

: 0728 3
: 0729 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
: 0730 3
: 0731 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0732 3 ! Store the actual size of the DDB.      ![[03]
: 0733 3
: 0734 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0735 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
: 0736 3
: 0737 3 !+
: 0738 3 ! Allocate a Device Data Block for EVDLC (for the DMF32A device - the Combo async port):
: 0739 3 !-
: 0740 3
: 0741 3 Allocate_DDB ('EVDLC ');
: 0742 3
: 0743 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
: 0744 3
: 0745 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_2_Hdwr_Sprt_Table [CRD$K_UDA_2_EVDLC, 0];
: 0746 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0747 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
: 0748 3
: 0749 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
: 0750 3
: 0751 3
: 0752 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0753 3 ! Store the actual size of the DDB.      ![[03]
: 0754 3
: 0755 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0756 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]
: 0757 3
: 0758 3 !+
: 0759 3 ! Allocate a Device Data Block for EVDLD (for the DMF32P device - the Combo parallel port):
: 0760 3 !-
: 0761 3
: 0762 3 Allocate_DDB ('EVDLD ');
: 0763 3
: 0764 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]
: 0765 3
: 0766 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_2_Hdwr_Sprt_Table [CRD$K_UDA_2_EVDLD, 0];
: 0767 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0768 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]
: 0769 3
: 0770 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]
: 0771 3
: 0772 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]
: 0773 3 ! Store the actual size of the DDB.      ![[03]
: 0774 3
: 0775 3 Print_DDB_Status (.DDB_Ptr);      ![[09]
: 0776 3 RETURN;
: 0777 2 END;
: 0778 2
: 0779 2

```

```

; 0780 2  !+
; 0781 2  ! UDA based system with RA60 drive 1, RA60 Drive 0
; 0782 2  !-
; 0783 2  [CRD$K_Base_System_UDA_3]:
; 0784 3  BEGIN
; 0785 3  !+
; 0786 3  ! Allocate a Device Data Block for EVRLA_0 (for Drive 0):
; 0787 3  !-
; 0788 3
; 0789 3  Allocate_DDB ('EVRLA_0');
; 0790 3
; 0791 3  DDB_Ptr [CRD$K_DDB_FLink] = .DDB_Ptr;          ![[09]]
; 0792 3  DDB_Ptr [CRD$K_DDB_BLink] = .DDB_Ptr;          ![[09]]
; 0793 3
; 0794 3  DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_3_Hdwr_Sprt_Table [CRD$K_UDA_3_EVRLA_0, 0];
; 0795 3  DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0796 3  DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
; 0797 3
; 0798 3  CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
; 0799 3
; 0800 3  DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]
; 0801 3  ! This is an essential device - it must be tested
; 0802 3
; 0803 3  DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = True;      ![[09]]
; 0804 3  ! Check the Device_Type field in the Test_Start_Text when outputting
; 0805 3  ! the text. This is because this diagnostic will test either the R80 or
; 0806 3  ! the RL02 on DQA0, depending on what is there.
; 0807 3
; 0808 3  DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;              ![[09]]
; 0809 3  ! Store the actual size of the DDB.          ![[03]]
; 0810 3
; 0811 3  Print_DDB_Status (.DDB_Ptr);          ![[09]]
; 0812 3  Prev_DDB_Ptr = .DDB_Ptr;          ![[09]]
; 0813 3
; 0814 3  CRD$GA_First_Diagnostic = .DDB_Ptr;          ![[09]]
; 0815 3  ! This will point to the EVRLA_0 DDB. It will be the first one. ![[05]]
; 0816 3
; 0817 3  CRD$GA_Current_Diagnostic = .DDB_Ptr;          ![[09]]
; 0818 3  ! This will be the current DDB also.          ![[05]]
; 0819 3
; 0820 3  !+
; 0821 3  ! Allocate a Device Data Block for EVRLA_1 (for Drive 1):
; 0822 3  !-
; 0823 3
; 0824 3  Allocate_DDB ('EVRLA_1');
; 0825 3
; 0826 3  INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);          ![[09]]
; 0827 3
; 0828 3  DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UDA_3_Hdwr_Sprt_Table [CRD$K_UDA_3_EVRLA_1, 0];
; 0829 3  DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
; 0830 3  DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;
; 0831 3
; 0832 3  CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
; 0833 3
; 0834 3  DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = True;      ![[09]]

```

```

: 0835 3      ! This is an essential device - it must be tested
: 0836 3
: 0837 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]]
: 0838 3      ! Store the actual size of the DDB.      ![[03]]
: 0839 3 Print_DDB_Status (.DDB_Ptr);      ![[09]]
: 0840 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]]
: 0841 3
: 0842 3 !+
: 0843 3 ! Allocate a Device Data Block for EVDLB (for the DMF32S device - the Combo sync port):
: 0844 3 !-
: 0845 3
: 0846 3 Allocate_DDB ('EVDLB ');
: 0847 3
: 0848 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]]
: 0849 3
: 0850 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UA_3_Hdwr_Sprt_Table [CRD$K_UA_3_EVDLB, 0];
: 0851 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0852 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]]
: 0853 3
: 0854 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]]
: 0855 3
: 0856 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]]
: 0857 3      ! Store the actual size of the DDB.      ![[03]]
: 0858 3
: 0859 3 Print_DDB_Status (.DDB_Ptr);      ![[09]]
: 0860 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]]
: 0861 3
: 0862 3 !+
: 0863 3 ! Allocate a Device Data Block for EVDLC (for the DMF32A device - the Combo async port):
: 0864 3 !-
: 0865 3
: 0866 3 Allocate_DDB ('EVDLC ');
: 0867 3
: 0868 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]]
: 0869 3
: 0870 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UA_3_Hdwr_Sprt_Table [CRD$K_UA_3_EVDLC, 0];
: 0871 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0872 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;      ![[09]]
: 0873 3
: 0874 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits      ![[09]]
: 0875 3
: 0876 3
: 0877 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;      ![[09]]
: 0878 3      ! Store the actual size of the DDB.      ![[03]]
: 0879 3
: 0880 3 Print_DDB_Status (.DDB_Ptr);      ![[09]]
: 0881 3 Prev_DDB_Ptr = .DDB_Ptr;      ![[09]]
: 0882 3
: 0883 3 !+
: 0884 3 ! Allocate a Device Data Block for EVDLD (for the DMF32P device the Combo parallel port):
: 0885 3 !-
: 0886 3
: 0887 3 Allocate_DDB ('EVDLD ');
: 0888 3
: 0889 3 INSQUE (.DDB_Ptr, .Prev_DDB_Ptr);      ![[09]]

```

```

ZZ-ENSAB-2.0    CRD$Build_DDBs Routine
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 Page 26
01-11 CRD$Build_DDBs Routine 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (16)

```

```

: 0890 3
: 0891 3 DDB_Ptr [CRD$K_DDB_Auto_Support_Entry] = CRD$AL_UA_3_Hdwr_Sprt_Table [CRD$K_UA_3_EVDLD, 0];
: 0892 3 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = 0;
: 0893 3 DDB_Ptr [CRD$K_DDB_PTable_Entry] = 0;          ![[09]]
: 0894 3
: 0895 3 CRD$Init_DDB_Status (.DDB_Ptr); ! Initialize the status bits          ![[09]]
: 0896 3
: 0897 3 DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size> = .Size;          ![[09]]
: 0898 3 ! Store the actual size of the DDB.          ![[03]]
: 0899 3
: 0900 3 Print_DDB_Status (.DDB_Ptr);          ![[09]]
: 0901 3 RETURN;
: 0902 2 END;
: 0903 2
: 0904 2
: 0905 2

```

```
; 0906 2
; 0907 2   TES;
; 0908 2
; 0909 2
; 0910 1 END;   ! Routine CRD$Build_DDBs
```

```
.TITLE CRDDDB *** CRDDDB Module
.IDENT \01-11\
```

```
.PSECT WORK,NOEXE,2
```

```
00000 CRD$GA_CURRENT_DIAGNOSTIC::
```

```
.BLKB 4
```

```
00000000 00004 CRD$GA_FIRST_DIAGNOSTIC::
```

```
.LONG 0
```

```
.PSECT DATA,NOWRT,NOEXE, SHR,2
```

```
42 44 44 44 52 43 06 00000 P.AAA: .ASCII <6>\CRDDDB\
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00007 P.AAB: .ASCII \ - DDB_Ptr [EVRAD_0] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 44 41 52 56 00016
2F 21 29 00025
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00028 P.AAC: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00037
21 20 65 68 74 20 67 6E 69 7A 00046
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00050 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 0005F
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0006C P.AAD: .ASCII \ - DDB_Ptr [EVRAD_1] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 31 5F 44 41 52 56 0007B
2F 21 29 0008A
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 0008D P.AAE: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 0009C
21 20 65 68 74 20 67 6E 69 7A 000AB
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 000B5 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 000C4
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 000D1 P.AAF: .ASCII \ - DDB_Ptr [EVDLB ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 42 4C 44 56 000E0
2F 21 29 000EF
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 000F2 P.AAG: .ASCII \C*** Init_DDB_Status: Initializing the .\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00101
21 20 65 68 74 20 67 6E 69 7A 00110
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 0011A .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00129
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00136 P.AAH: .ASCII \ - DDB_Ptr [EVDLC ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 43 4C 44 56 00145
2F 21 29 00154
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00157 P.AAI: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00166
21 20 65 68 74 20 67 6E 69 7A 00175
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 0017F .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 0018E
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0019B P.AAJ: .ASCII \ - DDB_Ptr [EVDLD ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 44 4C 44 56 001AA
2F 21 29 001B9
```

```
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 001BC P.AAK: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 001CB ;
21 20 65 68 74 20 67 6E 69 7A 001DA ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 001E4 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 001F3 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00200 P.AAL: .ASCII \ - DDB_Ptr [EVRMB_0] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 42 4D 52 56 0020F ;
2F 21 29 0021E ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00221 P.AAM: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00230 ;
21 20 65 68 74 20 67 6E 69 7A 0023F ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00249 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00258 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00265 P.AAN: .ASCII \ - DDB_Ptr [EVRMB_1] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 31 5F 42 4D 52 56 00274 ;
2F 21 29 00283 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00286 P.AAO: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00295 ;
21 20 65 68 74 20 67 6E 69 7A 002A4 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 002AE .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 002BD ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 002CA P.AAP: .ASCII \ - DDB_Ptr [EVRLA_0] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 41 4C 52 56 002D9 ;
2F 21 29 002E8 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 002EB P.AAQ: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 002FA ;
21 20 65 68 74 20 67 6E 69 7A 00309 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00313 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00322 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0032F P.AAR: .ASCII \ - DDB_Ptr [EVDLB ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 42 4C 44 56 0033E ;
2F 21 29 0034D ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00350 P.AAS: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 0035F ;
21 20 65 68 74 20 67 6E 69 7A 0036E ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00378 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00387 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00394 P.AAT: .ASCII \ - DDB_Ptr [EVDLC ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 43 4C 44 56 003A3 ;
2F 21 29 003B2 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 003B5 P.AAU: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 003C4 ;
21 20 65 68 74 20 67 6E 69 7A 003D3 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 003DD .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 003EC ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 003F9 P.AAV: .ASCII \ - DDB_Ptr [EVDLD ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 44 4C 44 56 00408 ;
2F 21 29 00417 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 0041A P.AAW: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00429 ;
21 20 65 68 74 20 67 6E 69 7A 00438 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00442 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00451 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0045E P.AAX: .ASCII \ - DDB_Ptr [EVRLA_0] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 41 4C 52 56 0046D ;
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53 2F 21 29 0047C 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 0047F P.AAY: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 0048E ;
21 20 65 68 74 20 67 6E 69 7A 0049D ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 004A7 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 004B6 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 004C3 P.AAZ: .ASCII \ - DDB_Ptr [EVRLA_1] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 31 5F 41 4C 52 56 004D2 ;
2F 21 29 004E1 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 004E4 P.ABA: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 004F3 ;
21 20 65 68 74 20 67 6E 69 7A 00502 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 0050C .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 0051B ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00528 P.ABB: .ASCII \ - DDB_Ptr [EVDLB ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 42 4C 44 56 00537 ;
2F 21 29 00546 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00549 P.ABC: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00558 ;
21 20 65 68 74 20 67 6E 69 7A 00567 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00571 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00580 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0058D P.ABD: .ASCII \ - DDB_Ptr [EVDLC ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 43 4C 44 56 0059C ;
2F 21 29 005AB 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 005AE P.ABE: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 005BD ;
21 20 65 68 74 20 67 6E 69 7A 005CC ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 005D6 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 005E5 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 005F2 P.ABF: .ASCII \ - DDB_Ptr [EVDLD ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 44 4C 44 56 00601 ;
2F 21 29 00610 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00613 P.ABG: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00622 ;
21 20 65 68 74 20 67 6E 69 7A 00631 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 0063B .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 0064A ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00657 P.ABH: .ASCII \ - DDB_Ptr [EVRLA_0] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 41 4C 52 56 00666 ;
2F 21 29 00675 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00678 P.ABI: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00687 ;
21 20 65 68 74 20 67 6E 69 7A 00696 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 006A0 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 006AF ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 006BC P.ABJ: .ASCII \ - DDB_Ptr [EVDLB ] = !XL(X)!/\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 42 4C 44 56 006CB ;
2F 21 29 006DA 53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 006DD P.ABK: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 006EC ;
21 20 65 68 74 20 67 6E 69 7A 006FB ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00705 .ASCII \XL DDB status bits to: !XL!/\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00714 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00721 P.ABL: .ASCII \ - DDB_Ptr [EVDLC ] = !XL(X)!/\ ;
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ZZ-ENSAB-2.0      CRD$Build_DDBs Routine
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD$Build_DDBs Routine 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (17)

M 6
19-Sep-1985
Fiche 3 Frame M6
Sequence 489

58 28 4C 58 21 20 3D 20 5D 20 20 43 4C 44 56 00730 ;
2F 21 29 0073F ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00742 P.ABM: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00751 ;
21 20 65 68 74 20 67 6E 69 7A 00760 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 0076A .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00779 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00786 P.ABN: .ASCII \ - DDB_Ptr [EVDLD ] = !XL(X)!\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 44 4C 44 56 00795 ;
2F 21 29 007A4 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 007A7 P.ABO: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 007B6 ;
21 20 65 68 74 20 67 6E 69 7A 007C5 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 007CF .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 007DE ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 007EB P.ABP: .ASCII \ - DDB_Ptr [EVRLA_0] = !XL(X)!\ ;
58 28 4C 58 21 20 3D 20 5D 30 5F 41 4C 52 56 007FA ;
2F 21 29 00809 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 0080C P.ABQ: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 0081B ;
21 20 65 68 74 20 67 6E 69 7A 0082A ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00834 .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00843 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 00850 P.ABR: .ASCII \ - DDB_Ptr [EVRLA_1] = !XL(X)!\ ;
58 28 4C 58 21 20 3D 20 5D 31 5F 41 4C 52 56 0085F ;
2F 21 29 0086E ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 00871 P.ABS: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 00880 ;
21 20 65 68 74 20 67 6E 69 7A 0088F ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00899 .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 008A8 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 008B5 P.ABT: .ASCII \ - DDB_Ptr [EVDLB ] = !XL(X)!\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 42 4C 44 56 008C4 ;
2F 21 29 008D3 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 008D6 P.ABU: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 008E5 ;
21 20 65 68 74 20 67 6E 69 7A 008F4 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 008FE .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 0090D ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0091A P.ABV: .ASCII \ - DDB_Ptr [EVDLC ] = !XL(X)!\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 43 4C 44 56 00929 ;
2F 21 29 00938 ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 0093B P.ABW: .ASCII \C*** Init_DDB_Status: Initializing the !\ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 0094A ;
21 20 65 68 74 20 67 6E 69 7A 00959 ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 00963 .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 00972 ;
45 5B 20 72 74 50 5F 42 44 44 20 2D 20 20 20 0097F P.ABX: .ASCII \ - DDB_Ptr [EVDLD ] = !XL(X).\ ;
58 28 4C 58 21 20 3D 20 5D 20 20 44 4C 44 56 0098E ;
2F 21 29 0099D ;
53 5F 42 44 44 5F 74 69 6E 49 20 2A 2A 2A 43 009A0 P.ABY: .ASCII \C*** Init_DDB_Status: Initia 'zing the \ ;
69 6C 61 69 74 69 6E 49 20 3A 73 75 74 61 74 009AF ;
21 20 65 68 74 20 67 6E 69 7A 009BE ;
62 20 73 75 74 61 74 73 20 42 44 44 20 4C 58 009C8 .ASCII \XL DDB status bits to: !XL!\ ;
2F 21 4C 58 21 20 3A 6F 74 20 73 74 69 009D7 ;

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DSA\$AL_APTMAIL= 65024
 DSA\$GL_FLAGS= 65024
 DSA\$GL_APTCOM= 65028
 DSA\$GL_PASSES= 65032
 DSA\$GL_UNITS= 65036
 DSA\$GL_SECTNO= 65040
 DSA\$GL_SID= 65044
 DSA\$GL_MSGTYP= 65088
 DSA\$GL_ERRNO= 65092
 DSA\$GL_EVENT= 65096
 DSA\$GL_SUBTNO= 65100
 DSA\$GL_TESTNO= 65104
 DSA\$GL_PASSNO= 65108
 DSA\$GL_DEVLEN= 65112
 DSA\$GL_DEVNAM= 65116
 DSA\$GL_MSGPTR= 65128

\$MODULE= P.AAA

.EXTRN CRD\$BUILD_DDBS, CRD\$DISPOSE
 .EXTRN CRD\$INIT_DDB_STATUS
 .EXTRN CRD\$NEW, CRD\$GB_CRD_DEBUG
 .EXTRN CRD\$INTERNAL_ERROR
 .EXTRN CRD\$GB_BASE_SYSTEM
 .EXTRN CRD\$PRINT, CRD\$AL_IDC_HDWR_SPRT_TABLE
 .EXTRN CRD\$AL_LESI_HDWR_SPRT_TABLE
 .EXTRN CRD\$AL_UDA_0_HDWR_SPRT_TABLE
 .EXTRN CRD\$AL_UDA_1_HDWR_SPRT_TABLE
 .EXTRN CRD\$AL_UDA_2_HDWR_SPRT_TABLE
 .EXTRN CRD\$AL_UDA_3_HDWR_SPRT_TABLE

.PSECT CODE, NOWRT, SHR, PIC, 2

000C 00000 .ENTRY CRD\$BUILD_DDBS, Save R2,R3 ; 0149
 5E 08 C2 00002 SUBL2 #8, SP ;
 52 00000000G EF 9A 00005 MOVZBL CRD\$GB_BASE_SYSTEM, R2 ; 0221
 01 52 91 0000C CMPB R2, #1 ; 0223
 03 13 0000F BEQL 1\$;
 027F 31 00011 BRW 17\$;
 04 AE 2C D0 00014 1\$: MOVL #44, SIZE ; 0230
 5E DD 00018 PUSHL SP ;
 08 AE 9F 0001A PUSHAB SIZE ;
 00000000V EF 02 FB 0001D CALLS #2, CRD\$NEW ;
 0C 50 E8 00024 BLBS R0, 2\$;
 7E 7C 00027 CLRQ -(SP) ;
 7E 01 CE 00029 MNEGL #1, -(SP) ;
 00000000G EF 03 FB 0002C CALLS #3, CRD\$INTERNAL_ERROR ;
 13 00000000G EF E9 00033 2\$: BLBC CRD\$GB_CRD_DEBUG, 3\$;
 6E DD 0003A PUSHL DDB_PTR ;
 00000000 EF 9F 0003C PUSHAB P.AAB ;
 01 DD 00042 PUSHL #1 ;
 1A DD 00044 PUSHL #26 ;
 00000000G FF 04 FB 00046 CALLS #4, CRD\$PRINT ;
 52 6E D0 0004D 3\$: MOVL DDB_PTR, R2 ; 0232
 62 52 D0 00050 MOVL R2, (R2) ;
 04 A2 52 D0 00053 MOVL R2, 4(R2) ; 0233

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0C A2 0000000G EF 9E 00057 MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE, 12(R2) ; 0235
10 A2 D4 0005F CLRL 16(R2) ; 0236
08 A2 D4 00062 CLRL 8(R2) ; 0237
52 DD 00065 PUSHL R2 ; 0239
00000000V EF 01 FB 00067 CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 0C 88 0006E BISB2 #12, 20(R2) ; 0244
17 A2 04 AE 90 00072 MOVB SIZE, 23(R2) ; 0249
16 00000000G EF E9 00077 BLBC CRD$GB_CRD_DEBUG, 4$ ; 0252
14 A0 DD 0007E PUSHL 20(DDB_PTR) ;
50 DD 00081 PUSHL DDB_PTR ;
00000000' EF 9F 00083 PUSHAB P.AAC ;
01 DD 00089 PUSHL #1 ;
1A DD 0008B PUSHL #26 ;
00000000G FF 05 FB 0008D CALLS #5, @CRD$PRINT ;
53 52 D0 00094 4$: MOVL R2, PREV_DDB_PTR ; 0253
00000000' EF 52 D0 00097 MOVL R2, CRD$GA_FIRST_DIAGNOSTIC ; 0255
00000000' EF 52 D0 0009E MOVL R2, CRD$GA_CURRENT_DIAGNOSTIC ; 0258
04 AE 2C D0 000A5 MOVL #44, SIZE ; 0265
5E DD 000A9 PUSHL SP ;
08 AE 9F 000AB PUSHAB SIZE ;
00000000V EF 02 FB 000AE CALLS #2, CRD$NEW ;
0C 50 E8 000B5 BLBS R0, 5$ ;
7E 7C 000B8 CLRQ -(SP) ;
7E 01 CE 000BA MNEGL #1, -(SP) ;
00000000G EF 03 FB 000BD CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 000C4 5$: BLBC CRD$GB_CRD_DEBUG, 6$ ;
6E DD 000CB PUSHL DDB_PTR ;
00000000' EF 9F 000CD PUSHAB P.AAD ;
01 DD 000D3 PUSHL #1 ;
1A DD 000D5 PUSHL #26 ;
00000000G FF 04 FB 000D7 CALLS #4, @CRD$PRINT ;
63 00 BE 0E 000DE 6$: INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0267
52 6E D0 000E2 MOVL DDB_PTR, R2 ; 0269
0C A2 0000000G EF 9E 000E5 MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE+32, 12(R2) ;
10 A2 D4 000ED CLRL 16(R2) ; 0270
08 A2 D4 000F0 CLRL 8(R2) ; 0271
52 DD 000F3 PUSHL R2 ; 0273
00000000V EF 01 FB 000F5 CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 04 88 000FC BISB2 #4, 20(R2) ; 0275
17 A2 04 AE 90 00100 MOVB SIZE, 23(R2) ; 0278
16 00000000G EF E9 00105 BLBC CRD$GB_CRD_DEBUG, 7$ ; 0280
14 A0 DD 0010C PUSHL 20(DDB_PTR) ;
50 DD 0010F PUSHL DDB_PTR ;
00000000' EF 9F 00111 PUSHAB P.AAE ;
01 DD 00117 PUSHL #1 ;
1A DD 00119 PUSHL #26 ;
00000000G FF 05 FB 0011B CALLS #5, @CRD$PRINT ;
53 52 D0 00122 7$: MOVL R2, PREV_DDB_PTR ; 0281
04 AE 2C D0 00125 MOVL #44, SIZE ; 0287
5E DD 00129 PUSHL SP ;
08 AE 9F 0012B PUSHAB SIZE ;
00000000V EF 02 FB 0012E CALLS #2, CRD$NEW ;
0C 50 E8 00135 BLBS R0, 8$ ;
7E 7C 00138 CLRQ -(SP) ;
7E 01 CE 0013A MNEGL #1, -(SP) ;
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00000000G EF 03 FB 0013D CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00144 8$: BLBC CRD$GB_CRD_DEBUG, 9$ ;
6E DD 0014B PUSHL DDB_PTR ;
00000000' EF 9F 0014D PUSHAB P.AAF ;
01 DD 00153 PUSHL #1 ;
1A DD 00155 PUSHL #26 ;
00000000G FF 04 FB 00157 CALLS #4, aCRD$PRINT ;
63 00 BE 0E 0015E 9$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0289
52 6E D0 00162 MOVL DDB_PTR, R2 ; 0291
0C A2 00000000G EF 9E 00165 MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE+64, 12(R2) ;
10 A2 D4 0016D CLRL 16(R2) ; 0292
08 A2 D4 00170 CLRL 8(R2) ; 0293
52 DD 00173 PUSHL R2 ; 0295
00000000V EF 01 FB 00175 CALLS #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 0017C MOVB SIZE, 23(R2) ; 0297
16 00000000G EF E9 00181 BLBC CRD$GB_CRD_DEBUG, 10$ ; 0300
14 A0 DD 00188 PUSHL 20(DDB_PTR) ;
50 DD 00188 PUSHL DDB_PTR ;
00000000' EF 9F 0018D PUSHAB P.AAG ;
01 DD 00193 PUSHL #1 ;
1A DD 00195 PUSHL #26 ;
00000000G FF 05 FB 00197 CALLS #5, aCRD$PRINT ;
53 52 D0 0019E 10$: MOVL R2, PREV_DDB_PTR ; 0301
04 AE 2C D0 001A1 MOVL #44, SIZE ; 0307
5E DD 001A5 PUSHL SP ;
08 AE 9F 001A7 PUSHAB SIZE ;
00000000V EF 02 FB 001AA CALLS #2, CRD$NEW ;
0C 50 E8 001B1 BLBS R0, 11$ ;
7E 7C 001B4 CLRQ -(SP) ;
7E 01 CE 001B6 MNEGL #1, -(SP) ;
00000000G EF 03 FB 001B9 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 001C0 11$: BLBC CRD$GB_CRD_DEBUG, 12$ ;
6E DD 001C7 PUSHL DDB_PTR ;
00000000' EF 9F 001C9 PUSHAB P.AAH ;
01 DD 001CF PUSHL #1 ;
1A DD 001D1 PUSHL #26 ;
00000000G FF 04 FB 001D3 CALLS #4, aCRD$PRINT ;
63 00 BE 0E 001DA 12$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0309
52 6E D0 001DE MOVL DDB_PTR, R2 ; 0311
0C A2 00000000G EF 9E 001E1 MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE+96, 12(R2) ;
10 A2 D4 001E9 CLRL 16(R2) ; 0312
08 A2 D4 001EC CLRL 8(R2) ; 0313
52 DD 001EF PUSHL R2 ; 0315
00000000V EF 01 FB 001F1 CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 04 88 001F8 BISB2 #4, 20(R2) ; 0317
17 A2 04 AE 90 001FC MOVB SIZE, 23(R2) ; 0320
16 00000000G EF E9 00201 BLBC CRD$GB_CRD_DEBUG, 13$ ; 0323
14 A0 DD 00208 PUSHL 20(DDB_PTR) ;
50 DD 0020B PUSHL DDB_PTR ;
00000000' EF 9F 0020D PUSHAB P.AAI ;
01 DD 00213 PUSHL #1 ;
1A DD 00215 PUSHL #26 ;
00000000G FF 05 FB 00217 CALLS #5, aCRD$PRINT ;
53 52 D0 0021E 13$: MOVL R2, PREV_DDB_PTR ; 0324
04 AE 2C D0 00221 MOVL #44, SIZE ; 0330

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08 5E DD 00225  PUSHL  SP      ;
    AE 9F 00227  PUSHAB SIZE    ;
00000000V EF 02 FB 0022A  CALLS #2, CRD$NEW      ;
    0C 50 E8 00231  BLBS  R0, 14$      ;
    7E 7C 00234  CLRQ  -(SP)      ;
    7E 01 CE 00236  MNEGL #1, -(SP)      ;
00000000G EF 03 FB 00239  CALLS #3, CRD$INTERNAL_ERROR      ;
    13 00000000G EF E9 00240 14$: BLBC  CRD$GB_CRD_DEBUG, 15$      ;
    6E DD 00247  PUSHL  DDB_PTR      ;
00000000' EF 9F 00249  PUSHAB P.AAJ      ;
    01 DD 0024F  PUSHL  #1      ;
    1A DD 00251  PUSHL  #26      ;
00000000G FF 04 FB 00253  CALLS #4, aCRD$PRINT      ;
    63 00 BE 0E 0025A 15$: INSQUE aDDB_PTR, (PREV_DDB_PTR)      ; 0332
    52 6E D0 0025E  MOVL  DDB_PTR, R2      ; 0334
0C A2 00000000G EF 9E 00261  MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE+128, 12(R2)      ;
10 A2 D4 00269  CLRL  16(R2)      ; 0335
08 A2 D4 0026C  CLRL  8(R2)      ; 0336
    52 DD 0026F  PUSHL  R2      ; 0338
00000000V EF 01 FB 00271  CALLS #1, CRD$INIT_DDB_STATUS      ;
17 A2 04 AE 90 00278  MOVB  SIZE, 23(R2)      ; 0340
    01 00000000G EF E8 0027D  BLBS  CRD$GB_CRD_DEBUG, 16$      ; 0343
    04 00284  RET      ;
14 A0 DD 00285 16$:  PUSHL  20(DDB_PTR)      ;
    50 DD 00288  PUSHL  DDB_PTR      ;
00000000' EF 9F 0028A  PUSHAB P.AAK      ;
    0A20 31 00290  BRW  86$      ;
    02 52 91 00293 17$:  CMPB  R2, #2      ; 0352
    03 13 00296  BEQL  18$      ;
    0112 31 00298  BRW  25$      ;
04 AE 2C D0 0029B 18$:  MOVL  #44, SIZE      ; 0358
    5E DD 0029F  PUSHL  SP      ;
08 AE 9F 002A1  PUSHAB SIZE      ;
00000000V EF 02 FB 002A4  CALLS #2, CRD$NEW      ;
    0C 50 E8 002AB  BLBS  R0, 19$      ;
    7E 7C 002AE  CLRQ  -(SP)      ;
    7E 01 CE 002B0  MNEGL #1, -(SP)      ;
00000000G EF 03 FB 002B3  CALLS #3, CRD$INTERNAL_ERROR      ;
    13 00000000G EF E9 002BA 19$: BLBC  CRD$GB_CRD_DEBUG, 20$      ;
    6E DD 002C1  PUSHL  DDB_PTR      ;
00000000' EF 9F 002C3  PUSHAB P.AAL      ;
    01 DD 002C9  PUSHL  #1      ;
    1A DD 002CB  PUSHL  #26      ;
00000000G FF 04 FB 002CD  CALLS #4, aCRD$PRINT      ;
    52 6E D0 002D4 20$:  MOVL  DDB_PTR, R2      ; 0360
    62 52 D0 002D7  MOVL  R2, (R2)      ;
04 A2 52 D0 002DA  MOVL  R2, 4(R2)      ; 0361
0C A2 00000000G EF 9E 002DE  MOVAB CRD$AL_LESI_HDWR_SPRT_TABLE, 12(R2)      ; 0363
10 A2 D4 002E6  CLRL  16(R2)      ; 0364
08 A2 D4 002E9  CLRL  8(R2)      ; 0365
    52 DD 002EC  PUSHL  R2      ; 0367
00000000V EF 01 FB 002EE  CALLS #1, CRD$INIT_DDB_STATUS      ;
14 A2 04 88 002F5  BISB2  #4, 20(R2)      ; 0369
17 A2 04 AE 90 002F9  MOVB  SIZE, 23(R2)      ; 0373
    16 00000000G EF E9 002FE  BLBC  CRD$GB_CRD_DEBUG, 21$      ; 0376
  
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14  A0 DD 00305  PUSHL 20(DDB_PTR) ;
    50 DD 00308  PUSHL DDB_PTR ;
    00000000' EF 9F 0030A  PUSHAB P.AAM ;
    01 DD 00310  PUSHL #1 ;
    1A DD 00312  PUSHL #26 ;
    00000000G FF 05 FB 00314  CALLS #5, @CRD$PRINT ;
    53 52 D0 0031B 21$: MOVL R2, PREV_DDB_PTR ; 0377
    00000000' EF 52 D0 0031E  MOVL R2, CRD$GA_FIRST_DIAGNOSTIC ; 0379
    00000000' EF 52 D0 00325  MOVL R2, CRD$GA_CURRENT_DIAGNOSTIC ; 0382
04  AE 2C D0 0032C  MOVL #44, SIZE ; 0389
    5E DD 00330  PUSHL SP ;
08  AE 9F 00332  PUSHAB SIZE ;
    00000000V EF 02 FB 00335  CALLS #2, CRD$NEW ;
    0C 50 E8 0033C  BLBS R0, 22$ ;
    7E 7C 0033F  CLRQ -(SP) ;
    7E 01 CE 00341  MNEGL #1, -(SP) ;
    00000000G EF 03 FB 00344  CALLS #3, CRD$INTERNAL_ERROR ;
    13 00000000G EF E9 0034B 22$: BLBC CRD$GB_CRD_DEBUG, 23$ ;
    6E DD 00352  PUSHL DDB_PTR ;
    00000000' EF 9F 00354  PUSHAB P.AAM ;
    01 DD 0035A  PUSHL #1 ;
    1A DD 0035C  PUSHL #26 ;
    00000000G FF 04 FB 0035E  CALLS #4, @CRD$PRINT ;
    63 00 BE 0E 00365 23$: INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0391
    52 6E D0 00369  MOVL DDB_PTR, R2 ; 0393
0C  A2 00000000G EF 9E 0036C  MOVAB CRD$AL_LESI_HDWR_SPT_TABLE+32, 12(R2) ;
10  A2 D4 00374  CLRL 16(R2) ; 0394
08  A2 D4 00377  CLRL 8(R2) ; 0395
    52 DD 0037A  PUSHL R2 ; 0397
    00000000V EF 01 FB 0037C  CALLS #1, CRD$INIT_DDB_STATUS ;
14  A2 04 88 00383  BISB2 #4, 20(R2) ; 0399
17  A2 04 AE 90 00387  MOVB SIZE, 23(R2) ; 0402
    16 00000000G EF E9 0038C  BLBC CRD$GB_CRD_DEBUG, 24$ ; 0404
14  A0 DD 00393  PUSHL 20(DDB_PTR) ;
    50 DD 00396  PUSHL DDB_PTR ;
    00000000' EF 9F 00398  PUSHAB P.AAO ;
    01 DD 0039E  PUSHL #1 ;
    1A DD 003A0  PUSHL #26 ;
    00000000G FF 05 FB 003A2  CALLS #5, @CRD$PRINT ;
    53 52 D0 003A9 24$: MOVL R2, PREV_DDB_PTR ; 0405
    04 003AC  RET ; 0221
    03 52 91 003AD 25$: CMPB R2, #3 ; 0446
    03 13 003B0  BEQL 26$ ;
    01FB 31 003B2  BRW 39$ ;
04  AE 2C D0 003B5 26$: MOVL #44, SIZE ; 0452
    5E DD 003B9  PUSHL SP ;
08  AE 9F 003BB  PUSHAB SIZE ;
    00000000V EF 02 FB 003BE  CALLS #2, CRD$NEW ;
    0C 50 E8 003C5  BLBS R0, 27$ ;
    7E 7C 003C8  CLRQ -(SP) ;
    7E 01 CE 003CA  MNEGL #1, -(SP) ;
    00000000G EF 03 FB 003CD  CALLS #3, CRD$INTERNAL_ERROR ;
    13 00000000G EF E9 003D4 27$: BLBC CRD$GB_CRD_DEBUG, 28$ ;
    6E DD 003DB  PUSHL DDB_PTR ;
    00000000' EF 9F 003DD  PUSHAB P.AAP ;
  
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01 DD 003E3   PUSHL   #1      ;
1A DD 003E5   PUSHL   #26     ;
00000000G FF 04 FB 003E7   CALLS  #4, aCRD$PRINT      ;
52      6E DO 003EE 28$:   MOVL   DDB_PTR, R2      ; 0454
62      52 DO 003F1   MOVL   R2, (R2)      ;
04 A2      52 DO 003F4   MOVL   R2, 4(R2)      ; 0455
0C A2 00000000G EF 9E 003F8   MOVAB  CRD$AL_UDA_0_HDWR_SPRT_TABLE, 12(R2)      ; 0457
10 A2 D4 00400   CLRL   16(R2)      ; 0458
08 A2 D4 00403   CLRL   8(R2)      ; 0459
52 DD 00406   PUSHL   R2      ; 0461
00000000V EF 01 FB 00408   CALLS  #1, CRD$INIT_DDB_STATUS      ;
14 A2      0C 88 0040F   BISB2  #12, 20(R2)      ; 0466
17 A2 04 AE 90 00413   MOVAB  SIZE, 23(R2)      ; 0471
16 00000000G EF E9 00418   BLBC  CRD$GB_CRD_DEBUG, 29$      ; 0474
14 A0 DD 0041F   PUSHL   20(DDB_PTR)      ;
50 DD 00422   PUSHL   DDB_PTR      ;
00000000' EF 9F 00424   PUSHAB P.AAQ      ;
01 DD 0042A   PUSHL   #1      ;
1A DD 0042C   PUSHL   #26     ;
00000000G FF 05 FB 0042E   CALLS  #5, aCRD$PRINT      ;
53      52 DO 00435 29$:   MOVL   R2, PREV_DDB_PTR      ; 0475
00000000' EF 52 DO 00438   MOVL   R2, CRD$GA_FIRST_DIAGNOSTIC      ; 0477
00000000' EF 52 DO 0043F   MOVL   R2, CRD$GA_CURRENT_DIAGNOSTIC      ; 0480
04 AE      2C DO 00446   MOVL   #44, SIZE      ; 0488
5E DD 0044A   PUSHL   SP      ;
08 AE 9F 0044C   PUSHAB  SIZE      ;
00000000V EF 02 FB 0044F   CALLS  #2, CRD$NEW      ;
0C      50 E8 00456   BLBS   R0, 30$      ;
7E 7C 00459   CLRQ   -(SP)      ;
7E      01 CE 0045B   MNEGL  #1, -(SP)      ;
00000000G EF 03 FB 0045E   CALLS  #3, CRD$INTERNAL_ERROR      ;
13 00000000G EF E9 00465 30$:   BLBC  CRD$GB_CRD_DEBUG, 31$      ;
6E DD 0046C   PUSHL   DDB_PTR      ;
00000000' EF 9F 0046E   PUSHAB P.AAR      ;
01 DD 00474   PUSHL   #1      ;
1A DD 00476   PUSHL   #26     ;
00000000G FF 04 FB 00478   CALLS  #4, aCRD$PRINT      ;
63 00      BE 0E 0047F 31$:   INSQUE aDDB_PTR, (PREV_DDB_PTR)      ; 0490
52      6E DO 00483   MOVL   DDB_PTR, R2      ; 0492
0C A2 00000000G EF 9E 00486   MOVAB  CRD$AL_UDA_0_HDWR_SPRT_TABLE+32, 12(R2)      ;
10 A2 D4 0048E   CLRL   16(R2)      ; 0493
08 A2 D4 00491   CLRL   8(R2)      ; 0494
52 DD 00494   PUSHL   R2      ; 0496
00000000V EF 01 FB 00496   CALLS  #1, CRD$INIT_DDB_STATUS      ;
17 A2 04 AE 90 0049D   MOVAB  SIZE, 23(R2)      ; 0498
16 00000000G EF E9 004A2   BLBC  CRD$GB_CRD_DEBUG, 32$      ; 0501
14 A0 DD 004A9   PUSHL   20(DDB_PTR)      ;
50 DD 004AC   PUSHL   DDB_PTR      ;
00000000' EF 9F 004AE   PUSHAB P.AAS      ;
01 DD 004B4   PUSHL   #1      ;
1A DD 004B6   PUSHL   #26     ;
00000000G FF 05 FB 004B8   CALLS  #5, aCRD$PRINT      ;
53      52 DO 004BF 32$:   MOVL   R2, PREV_DDB_PTR      ; 0502
04 AE      2C DO 004C2   MOVL   #44, SIZE      ; 0508
5E DD 004C6   PUSHL   SP      ;

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08 AE 9F 004C8 PUSHAB SIZE ;
00000000V EF 02 FB 004CB CALLS #2, CRD$NEW ;
0C 50 E8 004D2 BLBS R0, 33$ ;
7E 7C 004D5 CLRQ -(SP) ;
7E 01 CE 004D7 MNEGL #1, -(SP) ;
00000000G EF 03 FB 004DA CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 004E1 33$: BLBC CRD$GB_CRD_DEBUG, 34$ ;
6E DD 004E8 PUSHL DDB_PTR ;
00000000' EF 9F 004EA PUSHAB P.AAT ;
01 DD 004F0 PUSHL #1 ;
1A DD 004F2 PUSHL #26 ;
00000000G FF 04 FB 004F4 CALLS #4, @CRD$PRINT ;
63 00 BE 0E 004FB 34$: INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0510
52 6E D0 004FF MOVL DDB_PTR, R2 ; 0512
0C A2 00000000G EF 9E 00502 MOVAB CRD$AL_UDA_0_HDWR_SPRT_TABLE+64, 12(R2) ;
10 A2 D4 0050A CLRL 16(R2) ; 0513
08 A2 D4 0050D CLRL 8(R2) ; 0514
52 DD 00510 PUSHL R2 ; 0516
00000000V EF 01 FB 00512 CALLS #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 00519 MOVAB SIZE, 23(R2) ; 0519
16 00000000G EF E9 0051E BLBC CRD$GB_CRD_DEBUG, 35$ ; 0522
14 A0 DD 00525 PUSHL 20(DDB_PTR) ;
50 DD 00528 PUSHL DDB_PTR ;
00000000' EF 9F 0052A PUSHAB P.AAU ;
01 DD 00530 PUSHL #1 ;
1A DD 00532 PUSHL #26 ;
00000000G FF 05 FB 00534 CALLS #5, @CRD$PRINT ;
53 52 D0 0053B 35$: MOVL R2, PREV_DDB_PTR ; 0523
04 AE 2C D0 0053E MOVL #44, SIZE ; 0529
5E DD 00542 PUSHL SP ;
08 AE 9F 00544 PUSHAB SIZE ;
00000000V EF 02 FB 00547 CALLS #2, CRD$NEW ;
0C 50 E8 0054E BLBS R0, 36$ ;
7E 7C 00551 CLRQ -(SP) ;
7E 01 CE 00553 MNEGL #1, -(SP) ;
00000000G EF 03 FB 00556 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 0055D 36$: BLBC CRD$GB_CRD_DEBUG, 37$ ;
6E DD 00564 PUSHL DDB_PTR ;
00000000' EF 9F 00566 PUSHAB P.AAV ;
01 DD 0056C PUSHL #1 ;
1A DD 0056E PUSHL #26 ;
00000000G FF 04 FB 00570 CALLS #4, @CRD$PRINT ;
63 00 BE 0E 00577 37$: INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0531
52 6E D0 0057B MOVL DDB_PTR, R2 ; 0533
0C A2 00000000G EF 9E 0057E MOVAB CRD$AL_UDA_0_HDWR_SPRT_TABLE+96, 12(R2) ;
10 A2 D4 00586 CLRL 16(R2) ; 0534
08 A2 D4 00589 CLRL 8(R2) ; 0535
52 DD 0058C PUSHL R2 ; 0537
00000000V EF 01 FB 0058E CALLS #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 00595 MOVAB SIZE, 23(R2) ; 0539
01 00000000G EF E8 0059A BLBS CRD$GB_CRD_DEBUG, 38$ ; 0542
04 005A1 RET ;
14 A0 DD 005A2 38$: PUSHL 20(DDB_PTR) ;
50 DD 005A5 PUSHL DDB_PTR ;
00000000' EF 9F 005A7 PUSHAB P.AAW ;
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0703 31 005AD BRW 86$ ;
04 52 91 005B0 39$ : CMPB R2, #4 ; 0550
03 13 005B3 BEQL 40$ ;
027B 31 005B5 BRW 56$ ;
04 AE 2C D0 005B8 40$ : MOVL #44, SIZE ; 0556
08 AE DD 005BC PUSHL SP ;
AE 9F 005BE PUSHAB SIZE ;
00000000V EF 02 FB 005C1 CALLS #2, CRD$NEW ;
0C 50 E8 005C8 BLBS R0, 41$ ;
7E 7C 005CB CLRQ -(SP) ;
7E 01 CE 005CD MNEGL #1, -(SP) ;
00000000G EF 03 FB 005D0 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 005D7 41$ : BLBC CRD$GB_CRD_DEBUG, 42$ ;
6E DD 005DE PUSHL DDB_PTR ;
00000000' EF 9F 005E0 PUSHAB P.AAX ;
01 DD 005E6 PUSHL #1 ;
1A DD 005E8 PUSHL #26 ;
00000000G FF 04 FB 005EA CALLS #4, @CRD$PRINT ;
52 6E D0 005F1 42$ : MOVL DDB_PTR, R2 ; 0558
62 52 D0 005F4 MOVL R2, (R2) ;
04 A2 52 D0 005F7 MOVL R2, 4(R2) ; 0559
0C A2 00000000G EF 9E 005FB MOVAB CRD$AL_UDA_1_HDWR_SPRT_TABLE, 12(R2) ; 0561
10 A2 D4 00603 CLRL 16(R2) ; 0562
08 A2 D4 00606 CLRL 8(R2) ; 0563
52 DD 00609 PUSHL R2 ; 0565
00000000V EF 01 FB 0060B CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 0C 88 00612 BISB2 #12, 20(R2) ; 0570
17 A2 04 AE 90 00616 MOVB SIZE, 23(R2) ; 0575
16 00000000G EF E9 0061B BLBC CRD$GB_CRD_DEBUG, 43$ ; 0578
14 A0 DD 00622 PUSHL 20(DDB_PTR) ;
50 DD 00625 PUSHL DDB_PTR ;
00000000' EF 9F 00627 PUSHAB P.AAY ;
01 DD 0062D PUSHL #1 ;
1A DD 0062F PUSHL #26 ;
00000000G FF 05 FB 00631 CALLS #5, @CRD$PRINT ;
53 52 D0 00638 43$ : MOVL R2, PREV_DDB_PTR ; 0579
00000000' EF 52 D0 0063B MOVL R2, CRD$GA_FIRST_DIAGNOSTIC ; 0581
00000000' EF 52 D0 00642 MOVL R2, CRD$GA_CURRENT_DIAGNOSTIC ; 0584
04 AE 2C D0 00649 MOVL #44, SIZE ; 0591
08 AE DD 0064D PUSHL SP ;
AE 9F 0064F PUSHAB SIZE ;
00000000V EF 02 FB 00652 CALLS #2, CRD$NEW ;
0C 50 E8 00659 BLBS R0, 44$ ;
7E 7C 0065C CLRQ -(SP) ;
7E 01 CE 0065E MNEGL #1, -(SP) ;
00000000G EF 03 FB 00661 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00668 44$ : BLBC CRD$GB_CRD_DEBUG, 45$ ;
6E DD 0066F PUSHL DDB_PTR ;
00000000' EF 9F 00671 PUSHAB P.AAZ ;
01 DD 00677 PUSHL #1 ;
1A DD 00679 PUSHL #26 ;
00000000G FF 04 FB 0067B CALLS #4, @CRD$PRINT ;
63 00 BE 0E 00682 45$ : INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0593
52 6E D0 00686 MOVL DDB_PTR, R2 ; 0595
0C A2 00000000G EF 9E 00689 MOVAB CRD$AL_UDA_1_HDWR_SPRT_TABLE+32, 12(R2) ;
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10 A2 D4 00691 CLRL 16(R2) ; 0596
08 A2 D4 00694 CLRL 8(R2) ; 0597
52 DD 00697 PUSHL R2 ; 0599
00000000V EF 01 FB 00699 CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 04 88 006A0 BISB2 #4, 20(R2) ; 0601
17 A2 04 AE 90 006A4 MOVB SIZE, 23(R2) ; 0604
16 00000000G EF E9 006A9 BLBC CRD$GB_CRD_DEBUG, 46$ ; 0606
14 A0 DD 006B0 PUSHL 20(DDB_PTR) ;
50 DD 006B3 PUSHL DDB_PTR ;
00000000' EF 9F 006B5 PUSHAB P.ABA ;
01 DD 006BB PUSHL #1 ;
1A DD 006BD PUSHL #26 ;
00000000G FF 05 FB 006BF CALLS #5, @CRD$PRINT ;
53 52 D0 006C6 46$: MOVL R2, PREV_DDB_PTR ; 0607
04 AE 2C D0 006C9 MOVL #44, SIZE ; 0613
5E DD 006CD PUSHL SP ;
08 AE 9F 006CF PUSHAB SIZE ;
00000000V EF 02 FB 006D2 CALLS #2, CRD$NEW ;
0C 50 E8 006D9 BLBS R0, 47$ ;
7E 7C 006DC CLRQ -(SP) ;
7E 01 CE 006DE MNEGL #1, -(SP) ;
00000000G EF 03 FB 006E1 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 006E8 47$: BLBC CRD$GB_CRD_DEBUG, 48$ ;
6E DD 006EF PUSHL DDB_PTR ;
00000000' EF 9F 006F1 PUSHAB P.ABB ;
01 DD 006F7 PUSHL #1 ;
1A DD 006F9 PUSHL #26 ;
00000000G FF 04 FB 006FB CALLS #4, @CRD$PRINT ;
63 00 BE 0E 00702 48$: INSQUE @DDB_PTR, (PREV_DDB_PTR) ; 0615
52 6E D0 00706 MOVL DDB_PTR, R2 ; 0617
0C A2 00000000G EF 9E 00709 MOVAB CRD$AL_UA_1_HDWR_SPRT_TABLE+64, 12(R2) ;
10 A2 D4 00711 CLRL 16(R2) ; 0618
08 A2 D4 00714 CLRL 8(R2) ; 0619
52 DD 00717 PUSHL R2 ; 0621
00000000V EF 01 FB 00719 CALLS #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 00720 MOVB SIZE, 23(R2) ; 0623
16 00000000G EF E9 00725 BLBC CRD$GB_CRD_DEBUG, 49$ ; 0626
14 A0 DD 0072C PUSHL 20(DDB_PTR) ;
50 DD 0072F PUSHL DDB_PTR ;
00000000' EF 9F 00731 PUSHAB P.ABC ;
01 DD 00737 PUSHL #1 ;
1A DD 00739 PUSHL #26 ;
00000000G FF 05 FB 0073B CALLS #5, @CRD$PRINT ;
53 52 D0 00742 49$: MOVL R2, PREV_DDB_PTR ; 0627
04 AE 2C D0 00745 MOVL #44, SIZE ; 0633
5E DD 00749 PUSHL SP ;
08 AE 9F 0074B PUSHAB SIZE ;
00000000V EF 02 FB 0074E CALLS #2, CRD$NEW ;
0C 50 E8 00755 BLBS R0, 50$ ;
7E 7C 00758 CLRQ -(SP) ;
7E 01 CE 0075A MNEGL #1, -(SP) ;
00000000G EF 03 FB 0075D CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00764 50$: BLBC CRD$GB_CRD_DEBUG, 51$ ;
6E DD 0076B PUSHL DDB_PTR ;
00000000' EF 9F 0076D PUSHAB P.ABD ;
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01 DD 00773   PUSHL   #1           ;
1A DD 00775   PUSHL   #26          ;
00000000G FF 04 FB 00777   CALLS   #4, aCRD$PRINT      ;
63 00 BE 0E 0077E 51$:  INSQUE  aDDB_PTR, (PREV_DDB_PTR) ; 0635
52 6E D0 00782   MOVL   DDB_PTR, R2          ; 0637
0C A2 00000000G EF 9E 00785   MOVAB  CRD$AL_UA_1_HDWR_SPRT_TABLE+96, 12(R2) ;
10 A2 D4 0078D   CLRL   16(R2)          ; 0638
08 A2 D4 00790   CLRL   8(R2)           ; 0639
52 DD 00793   PUSHL   R2              ; 0641
00000000V EF 01 FB 00795   CALLS   #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 0079C   MOVAB  SIZE, 23(R2)          ; 0644
16 00000000G EF E9 007A1   BLBC   CRD$GB_CRD_DEBUG, 52$ ; 0647
14 A0 DD 007A8   PUSHL   20(DDB_PTR)      ;
50 DD 007AB   PUSHL   DDB_PTR          ;
00000000' EF 9F 007AD   PUSHAB P.ABE      ;
01 DD 007B3   PUSHL   #1           ;
1A DD 007B5   PUSHL   #26          ;
00000000G FF 05 FB 007B7   CALLS   #5, aCRD$PRINT      ;
53 52 D0 007BE 52$:  MOVL   R2, PREV_DDB_PTR      ; 0648
04 AE 2C D0 007C1   MOVL   #44, SIZE          ; 0654
5E DD 007C5   PUSHL   SP              ;
08 AE 9F 007C7   PUSHAB  SIZE          ;
00000000V EF 02 FB 007CA   CALLS   #2, CRD$NEW        ;
0C 50 E8 007D1   BLBS   R0, 53$          ;
7E 7C 007D4   CLRQ   -(SP)           ;
7E 01 CE 007D6   MNEGL  #1, -(SP)        ;
00000000G EF 03 FB 007D9   CALLS   #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 007E0 53$:  BLBC   CRD$GB_CRD_DEBUG, 54$ ;
6E DD 007E7   PUSHL   DDB_PTR          ;
00000000' EF 9F 007E9   PUSHAB P.ABF      ;
01 DD 007EF   PUSHL   #1           ;
1A DD 007F1   PUSHL   #26          ;
00000000G FF 04 FB 007F3   CALLS   #4, aCRD$PRINT      ;
63 00 BE 0E 007FA 54$:  INSQUE  aDDB_PTR, (PREV_DDB_PTR) ; 0656
52 6E D0 007FE   MOVL   DDB_PTR, R2          ; 0658
0C A2 00000000G EF 9E 00801   MOVAB  CRD$AL_UA_1_HDWR_SPRT_TABLE+128, 12(R2) ;
10 A2 D4 00809   CLRL   16(R2)          ; 0659
08 A2 D4 0080C   CLRL   8(R2)           ; 0660
52 DD 0080F   PUSHL   R2              ; 0662
00000000V EF 01 FB 00811   CALLS   #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 00818   MOVAB  SIZE, 23(R2)          ; 0664
01 00000000G EF E8 0081D   BLBS   CRD$GB_CRD_DEBUG, 55$ ; 0667
04 00824   RET                      ;
14 A0 DD 00825 55$:  PUSHL   20(DDB_PTR)      ;
50 DD 00828   PUSHL   DDB_PTR          ;
00000000' EF 9F 0082A   PUSHAB P.ABG      ;
0480 31 00830   BRW     86$           ;
05 52 91 00833 56$:  CMPB   R2, #5          ; 0679
03 13 00836   BEQL   57$           ;
01FB 31 00838   BRW     70$           ;
04 AE 2C D0 0083B 57$:  MOVL   #44, SIZE          ; 0685
5E DD 0083F   PUSHL   SP              ;
08 AE 9F 00841   PUSHAB  SIZE          ;
00000000V EF 02 FB 00844   CALLS   #2, CRD$NEW        ;
0C 50 E8 0084B   BLBS   R0, 58$          ;

```

ZZ-ENSAB-2.0 CRD\$Build_DDBs Routine

CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 Page 41

01-11 CRD\$Build_DDBs Routine 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (17)

```

7E 7C 0084E CLRQ -(SP)
7E 01 CE 00850 MNEGL #1, -(SP)
00000000G EF 03 FB 00853 CALLS #3, CRD$INTERNAL_ERROR
13 00000000G EF E9 0085A 58$: BLBC CRD$GB_CRD_DEBUG, 59$
6E DD 00861 PUSHL DDB_PTR
00000000' EF 9F 00863 PUSHAB P.ABH
01 DD 00869 PUSHL #1
1A DD 0086B PUSHL #26
00000000G FF 04 FB 0086D CALLS #4, aCRD$PRINT
52 6E D0 00874 59$: MOVL DDB_PTR, R2 ; 0687
62 52 D0 00877 MOVL R2, (R2)
04 A2 52 D0 0087A MOVL R2, 4(R2) ; 0688
0C A2 00000000G EF 9E 0087E MOVAB CRD$AL_UDA_2_HDWR_SPRT_TABLE, 12(R2) ; 0690
10 A2 D4 00886 CLRL 16(R2) ; 0691
08 A2 D4 00889 CLRL 8(R2) ; 0692
52 DD 0088C PUSHL R2 ; 0694
00000000V EF 01 FB 0088E CALLS #1, CRD$INIT_DDB_STATUS
14 A2 0C 88 00895 BISB2 #12, 20(R2) ; 0699
17 A2 04 AE 90 00899 MOVB SIZE, 23(R2) ; 0704
16 00000000G EF E9 0089E BLBC CRD$GB_CRD_DEBUG, 60$ ; 0707
14 A0 DD 008A5 PUSHL 20(DDB_PTR)
50 DD 008A8 PUSHL DDB_PTR
00000000' EF 9F 008AA PUSHAB P.ABI
01 DD 008B0 PUSHL #1
1A DD 008B2 PUSHL #26
00000000G FF 05 FB 008B4 CALLS #5, aCRD$PRINT
53 52 D0 008BB 60$: MOVL R2, PREV_DDB_PTR ; 0708
00000000' EF 52 D0 008BE MOVL R2, CRD$GA_FIRST_DIAGNOSTIC ; 0710
00000000' EF 52 D0 008C5 MOVL R2, CRD$GA_CURRENT_DIAGNOSTIC ; 0713
04 AE 2C D0 008CC MOVL #44, SIZE ; 0721
5E DD 008D0 PUSHL SP
08 AE 9F 008D2 PUSHAB SIZE
00000000V EF 02 FB 008D5 CALLS #2, CRD$NEW
0C 50 E8 008DC BLBS R0, 61$
7E 7C 008DF CLRQ -(SP)
7E 01 CE 008E1 MNEGL #1, -(SP)
00000000G EF 03 FB 008E4 CALLS #3, CRD$INTERNAL_ERROR
13 00000000G EF E9 008EB 61$: BLBC CRD$GB_CRD_DEBUG, 62$
6E DD 008F2 PUSHL DDB_PTR
00000000' EF 9F 008F4 PUSHAB P.ABJ
01 DD 008FA PUSHL #1
1A DD 008FC PUSHL #26
00000000G FF 04 FB 008FE CALLS #4, aCRD$PRINT
63 00 BE 0E 00905 62$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0723
52 6E D0 00909 MOVL DDB_PTR, R2 ; 0725
0C A2 00000000G EF 9E 0090C MOVAB CRD$AL_UDA_2_HDWR_SPRT_TABLE+32, 12(R2)
10 A2 D4 00914 CLRL 16(R2) ; 0726
08 A2 D4 00917 CLRL 8(R2) ; 0727
52 DD 0091A PUSHL R2 ; 0729
00000000V EF 01 FB 0091C CALLS #1, CRD$INIT_DDB_STATUS
17 A2 04 AE 90 00923 MOVB SIZE, 23(R2) ; 0731
16 00000000G EF E9 00928 BLBC CRD$GB_CRD_DEBUG, 63$ ; 0734
14 A0 DD 0092F PUSHL 20(DDB_PTR)
50 DD 00932 PUSHL DDB_PTR
00000000' EF 9F 00934 PUSHAB P.ABK

```

```
01 DD 0093A    PUSHL    #1          ;
1A DD 0093C    PUSHL    #26         ;
00000000G FF 05 FB 0093E    CALLS    #5, @CRD$PRINT          ;
53      52 D0 00945 63$:    MOVL     R2, PREV_DDB_PTR        ; 0735
04 AE      2C D0 00948    MOVL     #44, SIZE                  ; 0741
5E DD 0094C    PUSHL    SP          ;
08 AE 9F 0094E    PUSHAB   SIZE          ;
00000000V EF 02 FB 00951    CALLS    #2, CRD$NEW              ;
0C      50 E8 00958    BLBS     R0, 64$                      ;
7E 7C 0095B    CLRQ      -(SP)          ;
7E      01 CE 0095D    MNEGL    #1, -(SP)          ;
00000000G EF 03 FB 00960    CALLS    #3, CRD$INTERNAL_ERROR    ;
13 00000000G EF E9 00967 64$:    BLBC     CRD$GB_CRD_DEBUG, 65$ ;
6E DD 0096E    PUSHL    DDB_PTR          ;
00000000' EF 9F 00970    PUSHAB   P.ABL          ;
01 DD 00976    PUSHL    #1          ;
1A DD 00978    PUSHL    #26         ;
00000000G FF 04 FB 0097A    CALLS    #4, @CRD$PRINT          ;
63 00      BE 0E 00981 65$:    INSQUE   @DDB_PTR, (PREV_DDB_PTR) ; 0743
52      6E D0 00985    MOVL     DDB_PTR, R2          ; 0745
0C A2 00000000G EF 9E 00988    MOVAB   CRD$AL_UDA_2_HDWR_SPRT_TABLE+64, 12(R2) ;
10 A2 D4 00990    CLRL      16(R2)          ; 0746
08 A2 D4 00993    CLRL      8(R2)           ; 0747
52 DD 00996    PUSHL    R2          ; 0749
00000000V EF 01 FB 00998    CALLS    #1, CRD$INIT_DDB_STATUS    ;
17 A2 04      AE 90 0099F    MOVB     SIZE, 23(R2)          ; 0752
16 00000000G EF E9 009A4    BLBC     CRD$GB_CRD_DEBUG, 66$      ; 0755
14 A0 DD 009AB    PUSHL    20(DDB_PTR)          ;
50 DD 009AE    PUSHL    DDB_PTR          ;
00000000' EF 9F 009B0    PUSHAB   P.ABM          ;
01 DD 009B6    PUSHL    #1          ;
1A DD 009B8    PUSHL    #26         ;
00000000G FF 05 FB 009BA    CALLS    #5, @CRD$PRINT          ;
53      52 D0 009C1 66$:    MOVL     R2, PREV_DDB_PTR        ; 0756
04 AE      2C D0 009C4    MOVL     #44, SIZE                  ; 0762
5E DD 009C8    PUSHL    SP          ;
08 AE 9F 009CA    PUSHAB   SIZE          ;
00000000V EF 02 FB 009CD    CALLS    #2, CRD$NEW              ;
0C      50 E8 009D4    BLBS     R0, 67$                      ;
7E 7C 009D7    CLRQ      -(SP)          ;
7E      01 CE 009D9    MNEGL    #1, -(SP)          ;
00000000G EF 03 FB 009DC    CALLS    #3, CRD$INTERNAL_ERROR    ;
13 00000000G EF E9 009E3 67$:    BLBC     CRD$GB_CRD_DEBUG, 68$ ;
6E DD 009EA    PUSHL    DDB_PTR          ;
00000000' EF 9F 009EC    PUSHAB   P.ABN          ;
01 DD 009F2    PUSHL    #1          ;
1A DD 009F4    PUSHL    #26         ;
00000000G FF 04 FB 009F6    CALLS    #4, @CRD$PRINT          ;
63 00      BE 0E 009FD 68$:    INSQUE   @DDB_PTR, (PREV_DDB_PTR) ; 0764
52      6E D0 00A01    MOVL     DDB_PTR, R2          ; 0766
0C A2 00000000G EF 9E 00A04    MOVAB   CRD$AL_UDA_2_HDWR_SPRT_TABLE+96, 12(R2) ;
10 A2 D4 00A0C    CLRL      16(R2)          ; 0767
08 A2 D4 00A0F    CLRL      8(R2)           ; 0768
52 DD 00A12    PUSHL    R2          ; 0770
00000000V EF 01 FB 00A14    CALLS    #1, CRD$INIT_DDB STATUS    ;
```

```
17 A2 04 AE 90 00A1B MOVB SIZE, 23(R2) ; 0772
01 00000000G EF E8 00A20 BLBS CRD$GB_CRD_DEBUG, 69$ ; 0775
04 00A27 RET ;
14 A0 DD 00A28 69$: PUSHL 20(DDB_PTR) ;
50 DD 00A2B PUSHL DDB_PTR ;
00000000' EF 9F 00A2D PUSHAB P.ABO ;
027D 31 00A33 BRW 86$ ;
06 52 91 00A36 70$: CMPB R2, #6 ; 0783
01 13 00A39 BEQL 71$ ;
04 00A3B RET ;
04 AE 2C D0 00A3C 71$: MOVL #44, SIZE ; 0789
5E DD 00A40 PUSHL SP ;
08 AE 9F 00A42 PUSHAB SIZE ;
00000000V EF 02 FB 00A45 CALLS #2, CRD$NEW ;
0C 50 E8 00A4C BLBS R0, 72$ ;
7E 7C 00A4F CLRQ -(SP) ;
7E 01 CE 00A51 MNEGL #1, -(SP) ;
00000000G EF 03 FB 00A54 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00A5B 72$: BLBC CRD$GB_CRD_DEBUG, 73$ ;
6E DD 00A62 PUSHL DDB_PTR ;
00000000' EF 9F 00A64 PUSHAB P.ABP ;
01 DD 00A6A PUSHL #1 ;
1A DD 00A6C PUSHL #26 ;
00000000G FF 04 FB 00A6E CALLS #4, aCRD$PRINT ;
52 6E D0 00A75 73$: MOVL DDB_PTR, R2 ; 0791
62 52 D0 00A78 MOVL R2, (R2) ;
04 A2 52 D0 00A7B MOVL R2, 4(R2) ; 0792
0C A2 00000000G EF 9E 00A7F MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE, 12(R2) ; 0794
10 A2 D4 00A87 CLRL 16(R2) ; 0795
08 A2 D4 00A8A CLRL 8(R2) ; 0796
52 DD 00A8D PUSHL R2 ; 0798
00000000V EF 01 FB 00A8F CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 0C 88 00A96 BISB2 #12, 20(R2) ; 0803
17 A2 04 AE 90 00A9A MOVB SIZE, 23(R2) ; 0808
16 00000000G EF E9 00A9F BLBC CRD$GB_CRD_DEBUG, 74$ ; 0811
14 A0 DD 00AA6 PUSHL 20(DDB_PTR) ;
50 DD 00AA9 PUSHL DDB_PTR ;
00000000' EF 9F 00AAB PUSHAB P.ABQ ;
01 DD 00AB1 PUSHL #1 ;
1A DD 00AB3 PUSHL #26 ;
00000000G FF 05 FB 00AB5 CALLS #5, aCRD$PRINT ;
53 52 D0 00ABC 74$: MOVL R2, PREV_DDB_PTR ; 0812
00000000' EF 52 D0 00ABF MOVL R2, CRD$GA_FIRST_DIAGNOSTIC ; 0814
00000000' EF 52 D0 00AC6 MOVL R2, CRD$GA_CURRENT_DIAGNOSTIC ; 0817
04 AE 2C D0 00ACD MOVL #44, SIZE ; 0824
5E DD 00AD1 PUSHL SP ;
08 AE 9F 00AD3 PUSHAB SIZE ;
00000000V EF 02 FB 00AD6 CALLS #2, CRD$NEW ;
0C 50 E8 00ADD BLBS R0, 75$ ;
7E 7C 00AE0 CLRQ -(SP) ;
7E 01 CE 00AE2 MNEGL #1, -(SP) ;
00000000G EF 03 FB 00AE5 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00AEC 75$: BLBC CRD$GB_CRD_DEBUG, 76$ ;
6E DD 00AF3 PUSHL DDB_PTR ;
00000000' EF 9F 00AF5 PUSHAB P.ABR ;
```

```
01 DD 00AFB PUSHL #1 ;
1A DD 00AFD PUSHL #26 ;
00000000G FF 04 FB 00AFF CALLS #4, aCRD$PRINT ;
63 00 BE 0E 00B06 76$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0826
52 6E D0 00B0A MOVL DDB_PTR, R2 ; 0828
0C A2 00000000G EF 9E 00B0D MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE+32, 12(R2) ;
10 A2 D4 00B15 CLRL 16(R2) ; 0829
08 A2 D4 00B18 CLRL 8(R2) ; 0830
52 DD 00B1B PUSHL R2 ; 0832
00000000V EF 01 FB 00B1D CALLS #1, CRD$INIT_DDB_STATUS ;
14 A2 04 88 00B24 BISB2 #4, 20(R2) ; 0834
17 A2 04 AE 90 00B28 MOVB SIZE, 23(R2) ; 0837
16 00000000G EF E9 00B2D BLBC CRD$GB_CRD_DEBUG, 77$ ; 0839
14 A0 DD 00B34 PUSHL 20(DDB_PTR) ;
50 DD 00B37 PUSHL DDB_PTR ;
00000000' EF 9F 00B39 PUSHAB P.ABS ;
01 DD 00B3F PUSHL #1 ;
1A DD 00B41 PUSHL #26 ;
00000000G FF 05 FB 00B43 CALLS #5, aCRD$PRINT ;
53 52 D0 00B4A 77$: MOVL R2, PREV_DDB_PTR ; 0840
04 AE 2C D0 00B4D MOVL #44, SIZE ; 0846
5E DD 00B51 PUSHL SP ;
08 AE 9F 00B53 PUSHAB SIZE ;
00000000V EF 02 FB 00B56 CALLS #2, CRD$NEW ;
0C 50 E8 00B5D BLBS R0, 78$ ;
7E 7C 00B60 CLRQ -(SP) ;
7E 01 CE 00B62 MNEGL #1, -(SP) ;
00000000G EF 03 FB 00B65 CALLS #3, CRD$INTERNAL_ERROR ;
13 00000000G EF E9 00B6C 78$: BLBC CRD$GB_CRD_DEBUG, 79$ ;
6E DD 00B73 PUSHL DDB_PTR ;
00000000' EF 9F 00B75 PUSHAB P.ABT ;
01 DD 00B7B PUSHL #1 ;
1A DD 00B7D PUSHL #26 ;
00000000G FF 04 FB 00B7F CALLS #4, aCRD$PRINT ;
63 00 BE 0E 00B86 79$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0848
52 6E D0 00B8A MOVL DDB_PTR, R2 ; 0850
0C A2 00000000G EF 9E 00B8D MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE+64, 12(R2) ;
10 A2 D4 00B95 CLRL 16(R2) ; 0851
08 A2 D4 00B98 CLRL 8(R2) ; 0852
52 DD 00B9B PUSHL R2 ; 0854
00000000V EF 01 FB 00B9D CALLS #1, CRD$INIT_DDB_STATUS ;
17 A2 04 AE 90 00BA4 MOVB SIZE, 23(R2) ; 0856
16 00000000G EF E9 00BA9 BLBC CRD$GB_CRD_DEBUG, 80$ ; 0859
14 A0 DD 00BB0 PUSHL 20(DDB_PTR) ;
50 DD 00BB3 PUSHL DDB_PTR ;
00000000' EF 9F 00BB5 PUSHAB P.ABU ;
01 DD 00BBB PUSHL #1 ;
1A DD 00BBD PUSHL #26 ;
00000000G FF 05 FB 00BBF CALLS #5, aCRD$PRINT ;
53 52 D0 00BC6 80$: MOVL R2, PREV_DDB_PTR ; 0860
04 AE 2C D0 00BC9 MOVL #44, SIZE ; 0866
5E DD 00BCD PUSHL SP ;
08 AE 9F 00BCF PUSHAB SIZE ;
00000000V EF 02 FB 00BD2 CALLS #2, CRD$NEW ;
0C 50 E8 00BD9 BLBS R0, 81$ ;
```

```

    7E 7C 00BDC CLRQ -(SP) ;
    7E 01 CE 00BDE MNEGL #1, -(SP) ;
00000000G EF 03 FB 00BE1 CALLS #3, CRD$INTERNAL_ERROR ;
    13 00000000G EF E9 00BE8 81$: BLBC CRD$GB_CRD_DEBUG, 82$ ;
    6E DD 00BEF PUSHL DDB_PTR ;
00000000' EF 9F 00BF1 PUSHAB P.ABV ;
    01 DD 00BF7 PUSHL #1 ;
    1A DD 00BF9 PUSHL #26 ;
00000000G FF 04 FB 00BFB CALLS #4, aCRD$PRINT ;
    63 00 BE 0E 00C02 82$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0868
    52 6E D0 00C06 MOVL DDB_PTR, R2 ; 0870
0C A2 00000000G EF 9E 00C09 MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE+96, 12(R2) ;
    10 A2 D4 00C11 CLRL 16(R2) ; 0871
    08 A2 D4 00C14 CLRL 8(R2) ; 0872
    52 DD 00C17 PUSHL R2 ; 0874
00000000V EF 01 FB 00C19 CALLS #1, CRD$INIT_DDB_STATUS ;
    17 A2 04 AE 90 00C20 MOVAB SIZE, 23(R2) ; 0877
    16 00000000G EF E9 00C25 BLBC CRD$GB_CRD_DEBUG, 83$ ; 0880
    14 A0 DD 00C2C PUSHL 20(DDB_PTR) ;
    50 DD 00C2F PUSHL DDB_PTR ;
00000000' EF 9F 00C31 PUSHAB P.ABW ;
    01 DD 00C37 PUSHL #1 ;
    1A DD 00C39 PUSHL #26 ;
00000000G FF 05 FB 00C3B CALLS #5, aCRD$PRINT ;
    53 52 D0 00C42 83$: MOVL R2, PREV_DDB_PTR ; 0881
    04 AE 2C D0 00C45 MOVL #44, SIZE ; 0887
    5E DD 00C49 PUSHL SP ;
    08 AE 9F 00C4B PUSHAB SIZE ;
00000000V EF 02 FB 00C4E CALLS #2, CRD$NEW ;
    0C 50 E8 00C55 BLBS R0, 84$ ;
    7E 7C 00C58 CLRQ -(SP) ;
    7E 01 CE 00C5A MNEGL #1, -(SP) ;
00000000G EF 03 FB 00C5D CALLS #3, CRD$INTERNAL_ERROR ;
    13 00000000G EF E9 00C64 84$: BLBC CRD$GB_CRD_DEBUG, 85$ ;
    6E DD 00C6B PUSHL DDB_PTR ;
00000000' EF 9F 00C6D PUSHAB P.ABX ;
    01 DD 00C73 PUSHL #1 ;
    1A DD 00C75 PUSHL #26 ;
00000000G FF 04 FB 00C77 CALLS #4, aCRD$PRINT ;
    63 00 BE 0E 00C7E 85$: INSQUE aDDB_PTR, (PREV_DDB_PTR) ; 0889
    52 6E D0 00C82 MOVL DDB_PTR, R2 ; 0891
0C A2 00000000G EF 9E 00C85 MOVAB CRD$AL_UDA_3_HDWR_SPRT_TABLE+128, 12(R2) ;
    10 A2 D4 00C8D CLRL 16(R2) ; 0892
    08 A2 D4 00C90 CLRL 8(R2) ; 0893
    52 DD 00C93 PUSHL R2 ; 0895
00000000V EF 01 FB 00C95 CALLS #1, CRD$INIT_DDB_STATUS ;
    17 A2 04 AE 90 00C9C MOVAB SIZE, 23(R2) ; 0897
    16 00000000G EF E9 00CA1 BLBC CRD$GB_CRD_DEBUG, 87$ ; 0900
    14 A0 DD 00CA8 PUSHL 20(DDB_PTR) ;
    50 DD 00CAB PUSHL DDB_PTR ;
00000000' EF 9F 00CAD PUSHAB P.ABY ;
    01 DD 00CB3 86$: PUSHL #1 ;
    1A DD 00CB5 PUSHL #26 ;
00000000G FF 05 FB 00CB7 CALLS #5, aCRD$PRINT ;
    04 00CBE 87$: RET ; 0910
  
```

ZZ-ENSAB-2.0 CRD\$Build_DDBs Routine C 8
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame C8 Sequence 505
01-11 CRD\$Build_DDBs Routine 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 Page 46 (17)

; Routine Size: 3263 bytes, Routine Base: CODE + 0000

ZZ-ENSAB-2.0 CRD\$Dispose D 8
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 19-Sep-1985
01-11 CRD\$Dispose 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (18)

Fiche 3 Frame D8
Page 47

Sequence 506

```
; 0911 1 xSBTTL 'CRD$Dispose'      ![[01]]
; 0912 1      ![[01]]
; 0913 1 GLOBAL ROUTINE CRD$Dispose (Size, Address) =      ![[01]]
; 0914 1      ![[01]]
; 0915 1 !*
; 0916 1 | Functional Description:
; 0917 1 |
; 0918 1 | Deallocate a block of non-paged pool memory.
; 0919 1 |
; 0920 1 | Formal Input Parameters:
; 0921 1 |
; 0922 1 | Size      : The size of the block of memory to deallocate.
; 0923 1 | Address   : The address of the block of pool to deallocate.
; 0924 1 |
; 0925 1 | Formal Output Parameters:
; 0926 1 |
; 0927 1 | None
; 0928 1 |
; 0929 1 | Side Effects:
; 0930 1 |
; 0931 1 | None
; 0932 1 |
; 0933 1 | Completion Codes:
; 0934 1 |
; 0935 1 | None
; 0936 1 | -
```

```

: 0937 2 BEGIN ! Routine CRD$Dispose ![[01]]
: 0938 2 BIND ![[01]]
: 0939 2 Block_To_Deallocate = (Address); ![[01]]
: 0940 2
: 0941 2 MAP ![[01]]
: 0942 2 Address : REF BBLOCK; ![[01]]
: 0943 2 ! Reference Address as a block of bytes ![[01]]
: 0944 2
: 0945 2 BIND ROUTINE ![[01]]
: 0946 2 CRD$DeAllocate_Memory = (.CRD$Exe$DeaNonPaged) : JSB_DeAll; ![[01]]
: 0947 2 ! Use indirection to get the actual DS routine. ![[01]]
: 0948 2
: 0949 2 IF (.CRD$GB_CRD_Debug) THEN ![[04]]
P 0950 2 $CRD_Print($ASCIC('Dispose:: Size: !8SL(D) = !8XL(X) Address: !8XL(X)!/''), ![[09]]
: 0951 2 .Size, .Size, .Address); ![[04]]
: 0952 2
: 0953 2 !+ ![[01]]
: 0954 2 ! First, fill in the size and type (null is okay) of the block to be deallocated. ![[01]]
: 0955 2 ! These fields are filled in in the block itself. Then, pass the address of the block ![[01]]
: 0956 2 ! to the Exe$DeaNonPaged (Resident-DS) routine. Then return success. Note that the ![[01]]
: 0957 2 ! Exe$DeaNonPaged routine will do a BugCheck if the deallocation is illegal. ![[01]]
: 0958 2 - ![[01]]
: 0959 2
: 0960 2 Address [IRP$W_Size] = .Size; ![[01]]
: 0961 2 Address [IRP$B_Type] = 0; ![[01]]
: 0962 2
: 0963 2 CRD$DeAllocate_Memory (.Block_To_Deallocate); .[[01]]
: 0964 2 RETURN (CRD$K_Success); ![[01]]
: 0965 1 END; ! Routine CRD$Dispose ![[01]]

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

69 53 20 20 20 3A 3A 65 73 6F 70 73 69 44 36 009E4 P.ABZ: .ASCII \6Dispose:: Size: !8SL(D) = !8XL(X) Add\ ;
21 20 3D 20 29 44 28 4C 53 38 21 20 3A 65 7A 009F3 ;
64 64 41 20 29 58 28 4C 58 38 00A02 ;
2F 21 29 58 28 4C 58 38 21 20 3A 73 73 65 72 00A0C .ASCII \ress: !8XL(X)!/\ ;

```

.EXTRN CRD\$EXE\$DEANONPAGED

.PSECT CODE,NOWRT, SHR, PIC,2

```

OFFC 00000 .ENTRY CRD$DISPOSE, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 0913
R10,R11 ;
52 00000000G EF D0 00002 MOVL CRD$EXE$DEANONPAGED, R2 ; 0946
18 00000000G EF E9 00009 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0949
7E 04 AC 7D 00010 MOVQ SIZE, -(SP) ; 0951
04 AC DD 00014 PUSHL SIZE ;
00000000' EF 9F 00017 PUSHAB P.ABZ ;
01 DD 0001D PUSHL #1 ;
1A DD 0001F PUSHL #26 ;
00000000G FF 06 FB 00021 CALLS #6, @CRD$PRINT ;
50 08 AC D0 00028 1$: MOVL ADDRESS, R0 ; 0960
08 A0 04 AC B0 0002C MOVW SIZE, 8(R0) ;

```

ZZ-ENSAB-2.0 CRD\$Dispose
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$Dispose 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (19)

F 8

19-Sep-1985

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Sequence 508

```
0A  A0 94 00031  CLRB  10(R0)      ; 0961
    62 16 00034  JSB   (R2)        ; 0963
    50      01 D0 00036  MOVL  #1, R0      ; 0964
04 00039  RET                ; 0965
```

; Routine Size: 58 bytes, Routine Base: CODE + 0CBF

```

; 0966 1 xSBTTL 'CRD$Init_DDB_Status'
; 0967 1
; 0968 1 GLOBAL ROUTINE CRD$Init_DDB_Status (DDB_Ptr) : NOVALUE =
; 0969 1
; 0970 1 !**
; 0971 1 ! Functional Description:
; 0972 1 !
; 0973 1 ! This routine will initialize all the status bits in a DDB to their default values.
; 0974 1 ! This routine can be used by both Auto and Menu test.
; 0975 1 !
; 0976 1 ! Formal Input Parameters:
; 0977 1 !
; 0978 1 ! DDB_Ptr: A pointer to a Device_Data_Block_Structure
; 0979 1 !
; 0980 1 ! Formal Output Parameters:
; 0981 1 !
; 0982 1 ! None
; 0983 1 !
; 0984 1 ! Side Effects:
; 0985 1 !
; 0986 1 ! Initializes the bits in the status word.
; 0987 1 !
; 0988 1 ! Completion Codes:
; 0989 1 !
; 0990 1 ! None
; 0991 1 ! --

```

```

: 0992 2 BEGIN      ! Routine CRD$Init_DDB_Status
: 0993 2 MAP
: 0994 2   DDB_Ptr : REF Device_Data_Block_Structure;
: 0995 2
: 0996 2   DDB_Ptr [CRD$K_DDB_Status] = 0;           ![07]
: 0997 2
: 0998 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = True;      ![07]
: 0999 2
: 1000 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Diagnostic_Error> = False;      ![07]
: 1001 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error> = False;      ![07]
: 1002 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad> = False;           ![07]
: 1003 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Check_Device_Type> = False;      ![07]
: 1004 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device> = False;      ![07]
: 1005 2   DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = False;      ![07]
: 1006 1 END;      ! Routine CRD$Init_DDB_Status
  
```

```

      0000 00000 .ENTRY CRD$INIT_DDB_STATUS, Save nothing      ; 0968
50 04 AC D0 00002 MOVL   DDB_PTR, R0      ; 0996
50 14 C0 00006 ADDL2   #20, R0      ;
60 D4 00009 CLRL     (R0)      ;
60 20 88 0000B BISB2   #32, (R0)      ; 0998
60 5F 8F 8A 0000E BICB2   #95, (R0)      ; 1005
04 00012 RET      ; 1006
  
```

; Routine Size: 19 bytes, Routine Base: CODE + 0CF9

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (22)

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Sequence 511

```
: 1007 1 xSBTTL 'CRD$New'          ![[01]]
: 1008 1 ![[01]]
: 1009 1 GLOBAL ROUTINE CRD$New (Size, Address) = ![[01]]
: 1010 1 ![[01]]
: 1011 1 !+
: 1012 1 ! Functional Description:
: 1013 1 !
: 1014 1 ! Allocate a block of non-paged pool memory.
: 1015 1 !
: 1016 1 ! Formal Input Parameters:
: 1017 1 !
: 1018 1 ! Size      : The address of the size (in BYTES) of the block of memory needed.      ![[03]]
: 1019 1 !
: 1020 1 ! Formal Output Parameters:
: 1021 1 !
: 1022 1 ! Address : The address of the allocated block of pool.
: 1023 1 !
: 1024 1 ! Side Effects:
: 1025 1 !
: 1026 1 ! None
: 1027 1 !
: 1028 1 ! Completion Codes:
: 1029 1 !
: 1030 1 ! CRD$K_Failure - No memory allocated
: 1031 1 ! CRD$K_Success - Memory size allocated
: 1032 1 ! --
```

```

; 1033 2 BEGIN ! Routine CRD$New ![[01]]
; 1034 2 LOCAL ![[01]]
; 1035 2 Returned_Size; ! The size returned by the memory allocation routine. ![[01]]
; 1036 2
; 1037 2 BIND ROUTINE ![[01]]
; 1038 2 CRD$Allocate_Memory = (.CRD$Exe$AloNonPaged) : JSB_Alloc; ![[01]]
; 1039 2 ! Use indirection to get the actual DS routine. ![[01]]
; 1040 2
; 1041 2 !* ![[01]]
; 1042 2 ! First, call the allocation routine. If successful, it will return a size of the block allocated, and ![[01]]
; 1043 2 ! the address of the block. Then check the size of the allocated block. Make sure it is big enough. ![[01]]
; 1044 2 ! If the allocation routine fails, or if the size is not big enough, return failure. ![[01]]
; 1045 2 !- ![[01]]
; 1046 2
; 1047 2 IF (CRD$Allocate_Memory (..Size; Returned_Size, .Address)) THEN ![[03]]
; 1048 2 IF (.Returned_Size GEQ ..Size) THEN ![[03]]
; 1049 3 BEGIN ![[03]]
; 1050 3 IF (.CRD$GB_CRD_Debug) THEN ![[04]]
P 1051 3 $CRD_Print ($ASCII 'New:: Size: !8SL(D) Address: !8XL(X) Return size: !8SL(D)!/' ), ![[09]]
P 1052 3 ..Size, .Address, .Returned_Size); ![[04]]
; 1053 3
; 1054 3
; 1055 3 .Size = .Returned_Size; ![[03]]
; 1056 4 RETURN (CRD$K_Success) ![[03]]
; 1057 2 END; ![[03]]
; 1058 2
; 1059 2 IF (.CRD$GB_CRD_Debug) THEN ![[04]]
P 1060 2 $CRD_Print ($ASCII 'New:: Size: !8SL(D) Address: !8XL(X) Return size: !8SL(D)!/' ), ![[09]]
; 1061 2 ..Size, .Address, .Returned_Size); ![[04]]
; 1062 2
; 1063 2 RETURN (CRD$K_Failure); ![[01]]
; 1064 1 END; ! Routine CRD$New ![[01]]
    
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

69 53 20 20 20 20 20 20 20 3A 3A 77 65 4E 41 00A1B P.ACA: .ASCII \ANew:: Size: !8SL(D) Address: !8XL\ ;
64 64 41 20 29 44 28 4C 53 38 21 20 3A 65 7A 00A2A ;
;
65 7A 69 73 20 6E 72 75 74 65 52 20 29 58 28 00A43 .ASCII \ (X) Return size: !8SL(D)!/\ ;
2F 21 29 44 28 4C 53 38 21 20 3A 00A52 ;
69 53 20 20 20 20 20 20 20 3A 3A 77 65 4E 41 00A5D P.ACB: .ASCII \ANew:: Size: !8SL(D) Address: !8XL\ ;
64 64 41 20 29 44 28 4C 53 38 21 20 3A 65 7A 00A6C ;
;
65 7A 69 73 20 6E 72 75 74 65 52 20 29 58 28 00A85 .ASCII \ (X) Return size: !8SL(D)./\ ;
2F 21 29 44 28 4C 53 38 21 20 3A 00A94 ;
    
```

.EXTRN CRD\$EXE\$ALONONPAGED

.PSECT CODE,NOWRT, SHR, PIC,2

```

OFFC 00000 .ENTRY CRD$NEW, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- ; 1009
R11 ;
51 04 BC D0 00002 MOVL aSIZE, R1 ; 1047
    
```

```

00000000G FF 16 00006 JSB @CRD$EXE$ALONONPAGED ;
54 51 D0 0000C MOVL R1, R4 ;
08 BC 52 D0 0000F MOVL R2, @ADDRESS ;
2E 50 E9 00013 BLBC R0, 2$ ;
04 BC 54 D1 00016 CMPL RETURNED_SIZE, @SIZE ; 1048
28 19 0001A BLSS 2$ ;
19 00000000G EF E9 0001C BLBC CRD$GB_CRD_DEBUG, 1$ ; 1050
54 DD 00023 PUSHL RETURNED_SIZE ; 1053
08 AC DD 00025 PUSHL ADDRESS ;
04 BC DD 00028 PUSHL @SIZE ;
00000000' EF 9F 0002B PUSHAB P.ACA ;
01 DD 00031 PUSHL #1 ;
1A DD 00033 PUSHL #26 ;
00000000G FF 06 FB 00035 CALLS #6, @CRD$PRINT ;
04 BC 54 D0 0003C 1$: MOVL RETURNED_SIZE, @SIZE ; 1055
50 01 D0 00040 MOVL #1, R0 ; 1056
04 00043 RET ;
19 00000000G EF E9 00044 2$: BLBC CRD$GB_CRD_DEBUG, 3$ ; 1059
54 DD 0004B PUSHL RETURNED_SIZE ; 1061
08 AC DD 0004D PUSHL ADDRESS ;
04 BC DD 00050 PUSHL @SIZE ;
00000000' EF 9F 00053 PUSHAB P.ACB ;
01 DD 00059 PUSHL #1 ;
1A DD 0005B PUSHL #26 ;
00000000G FF 06 FB 0005D CALLS #6, @CRD$PRINT ;
50 D4 00064 3$: CLRL R0 ; 1063
04 00066 RET ; 1064

```

; Routine Size: 103 bytes, Routine Base: CODE + 0D0C


```

; 1065 1 END      ! End of CRDDDB module
; 1066 0 ELUDOM

```

: PSECT SUMMARY

Name	Bytes	Attributes									
DATA	2719	NOVEC	NOWRT	RD	NOEXE	SHR	LCL	REL	CON	NOPIC	ALIGN(2)
WORK	8	NOVEC	WRT	RD	NOEXE	NOSHR	LCL	REL	CON	NOPIC	ALIGN(2)
CODE	3443	NOVEC	NOWRT	RD	EXE	SHR	LCL	REL	CON	PIC	ALIGN(2)

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

\$ASCIC	Unbound	190	205										
Macro	Lib02	230	252	265	280	287	300	307	323	330	343		
	358	376	389	404	452	474	488	501	508	522			
	529	542	556	578	591	606	613	626	633	647			
	654	667	685	707	721	734	741	755	762	775			
	789	811	824	839	846	859	866	880	887	900			
	950	1051	1060										
\$CRD_LITERALS	Macro	Lib03	120										
\$CRD_PRINT	Unbound		190	205									
Macro	Lib03	230	252	265	280	287	300	307	323	330	343		
	358	376	389	404	452	474	488	501	508	522			
	529	542	556	578	591	606	613	626	633	647			
	654	667	685	707	721	734	741	755	762	775			
	789	811	824	839	846	859	866	880	887	900			
	950	1051	1060										
\$DS_DSADef	Macro	Lib02	119										
\$DS_TYPEDEF	Macro	Lib02	230	252	265	280	287	300	307	323	330	343	
	358	376	389	404	452	474	488	501	508	522			
	529	542	556	578	591	606	613	626	633	647			
	654	667	685	707	721	734	741	755	762	775			
	789	811	824	839	846	859	866	880	887	900			
	951	1053	1061										
\$EQLST	Macro	Lib04	120	230	252	265	280	287	300	307	323	330	
	343	358	376	389	404	452	474	488	501	508			
	522	529	542	556	578	591	606	613	626	633			
	647	654	667	685	707	721	734	741	755	762			
	775	789	811	824	839	846	859	866	880	887			
	900	951	1053	1061									
\$ER	Comptime	136											
\$MODULE	Bind	136											
ADDRESS	RoutForm	913	939a	942m	951.	960a=	961a=						
	RoutForm	1009	1047a=	1053.	1061.								
ALLOCATE_DDB	Macro		197	230	265	287	307	330	358	389	452	488	50

Symbol	Type	Defined	Referenced ...																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Symbol	Type	Defined	Referenced	...
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	120		
CRD\$K_AUTOSIZER_ERROR	Literal	120		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	120		
CRD\$K_BAD_ACTION_NUMBER	Literal	120		
CRD\$K_BAD_TYPECODE_ERROR	Literal	120		
CRD\$K_BASE_SYSTEM_IDC	Literal	120	223	
CRD\$K_BASE_SYSTEM_LESI	Literal	120	352	
CRD\$K_BASE_SYSTEM_NULL	Literal	120		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	120	446	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	120	550	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	120	679	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	120	783	
CRD\$K_CRD_INITIALIZATION	Literal	120		
CRD\$K_CREATE_HST	Literal	120		
CRD\$K_DATA_LENGTH_ERROR	Literal	120		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	120	235	269 291 311 334 363 393 457 492 512
CRD\$K_DDB_BLINK	Literal	120	233	361 455 559 688 792
CRD\$K_DDB_FLINK	Literal	120	232	360 454 558 687 791
CRD\$K_DDB_LAST_ENTRY	Literal	120		
CRD\$K_DDB_MEMORY_SIZE	Literal	120		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	120		
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	120	236	270 292 312 335 364 394 458 493 513
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	120		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	120		
CRD\$K_DDB_PTABLE_ENTRY	Literal	120	237	271 293 313 336 365 395 459 494 514
CRD\$K_DDB_SIZE	Unbound	198		
CRD\$K_DDB_STATUS	Unbound	192		
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	120		
CRD\$K_DEVICE_NAME	Literal	120		
CRD\$K_DIAGNOSTIC_ERROR	Literal	120		
CRD\$K_DIAGNOSTIC_NAME	Literal	120		
CRD\$K_DONE_GENERAL_COMS	Literal	120		
CRD\$K_DO NOTHING	Literal	120		
CRD\$K_DUMMY_10	Literal	120		
CRD\$K_DUMMY_11	Literal	120		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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 19-Sep-1985

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Symbol	Type	Defined	Referenced ...
CRD\$K_DUMMY_12	Literal	120	
CRD\$K_DUMMY_13	Literal	120	
CRD\$K_DUMMY_3	Literal	120	
CRD\$K_DUMMY_4	Literal	120	
CRD\$K_DUMMY_5	Literal	120	
CRD\$K_DUMMY_6	Literal	120	
CRD\$K_DUMMY_7	Literal	120	
CRD\$K_DUMMY_8	Literal	120	
CRD\$K_DUMMY_9	Literal	120	
CRD\$K_EXIT_CRD	Literal	120	
CRD\$K_FAILURE	Literal	Lib03 1063	
CRD\$K_HOOK_POINT	Literal	120	
CRD\$K_HS_INTERNAL_ERROR	Literal	120	
CRD\$K_IDC_EVDLB	Literal	120 291	
CRD\$K_IDC_EVDLC	Literal	120 311	
CRD\$K_IDC_EVDLD	Literal	120 334	
CRD\$K_IDC_EVRAD_0	Literal	120 235	
CRD\$K_IDC_EVRAD_1	Literal	120 269	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	120	
CRD\$K_INTERNAL_ERROR	Literal	120	
CRD\$K_LAST_ACTION_ROUTINE	Literal	120	
CRD\$K_LAST_ENTRY	Literal	120	
CRD\$K_LAST_FUNCTION	Literal	120	
CRD\$K_LAST_HOOK_POINT	Literal	120	
CRD\$K_LAST_INTERNAL_ERROR	Literal	120	
CRD\$K_LAST_TYPE	Literal	120	
CRD\$K_LESI_ENWCA	Literal	120	
CRD\$K_LESI_EVRMB_0	Literal	120 363	
CRD\$K_LESI_EVRMB_1	Literal	120 393	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	120	
CRD\$K_LEVEL_4_PASSED	Literal	120	
CRD\$K_LOAD_AUTOSIZER	Literal	120	
CRD\$K_LOAD_ERROR	Literal	120	
CRD\$K_LOAD_GENERAL_COM	Literal	120	
CRD\$K_LOAD_LOAD_COM	Literal	120	
CRD\$K_LOAD_SELECT_COM	Literal	120	
CRD\$K_LOAD_SET_EVENT_COM	Literal	120	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	120	
CRD\$K_LOAD_START_COM	Literal	120	
CRD\$K_LOAD_SUP_FILE	Literal	120	
CRD\$K_MM_INTERNAL_ERROR	Literal	120	
CRD\$K_NEW_LINE	Literal	120	
CRD\$K_PREPARATION_ERROR	Literal	120	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	120	
CRD\$K_RUNTIME	Literal	120	
CRD\$K_SAME_LINE	Literal	120	
CRD\$K_SET_EVENT_ARGS	Literal	120	
CRD\$K_SET_FLAGS_ARGS	Literal	120	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	120	
CRD\$K_START	Literal	120	
CRD\$K_START_AUTOSIZER	Literal	120	
CRD\$K_START_ERROR	Literal	120	
CRD\$K_START_QUALIFIERS	Literal	120	

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
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Sequence 518

Symbol Type Defined Referenced ...

```
-----  
CRD$K_STAR_LINE Literal 120  
CRD$K_STATE_ADVANCE_DIAGNOSTIC Literal 120  
CRD$K_STATE_ADVANCE_GENERAL_COM Literal 120  
CRD$K_STATE_ASSIGN_PTABLE_PTRS Literal 120  
CRD$K_STATE_AUTOSIZER_ERROR Literal 120  
CRD$K_STATE_AUTOSIZER_RUNNING Literal 120  
CRD$K_STATE_AUTOSIZER_SET_FLAGS Literal 120  
CRD$K_STATE_DIAGNOSTIC_ERROR Literal 120  
CRD$K_STATE_DIAGNOSTIC_RUNNING Literal 120  
CRD$K_STATE_DONE_DIAGNOSTICS Literal 120  
CRD$K_STATE_DONE_GENERAL_COMS Literal 120  
CRD$K_STATE_DUMMY_1 Literal 120  
CRD$K_STATE_DUMMY_10 Literal 120  
CRD$K_STATE_DUMMY_12 Literal 120  
CRD$K_STATE_DUMMY_13 Literal 120  
CRD$K_STATE_DUMMY_2 Literal 120  
CRD$K_STATE_DUMMY_3 Literal 120  
CRD$K_STATE_DUMMY_4 Literal 120  
CRD$K_STATE_DUMMY_6 Literal 120  
CRD$K_STATE_DUMMY_7 Literal 120  
CRD$K_STATE_DUMMY_8 Literal 120  
CRD$K_STATE_EXIT_CRD Literal 120  
CRD$K_STATE_INTERNAL_ERROR Literal 120  
CRD$K_STATE_LAST_STATE Literal 120  
CRD$K_STATE_LEVEL_4_PASSED Literal 120  
CRD$K_STATE_LOAD_AUTOSIZER Literal 120  
CRD$K_STATE_LOAD_ERROR Literal 120  
CRD$K_STATE_LOAD_GENERAL_COM Literal 120  
CRD$K_STATE_LOAD_LOAD_COM Literal 120  
CRD$K_STATE_LOAD_SELECT_COM Literal 120  
CRD$K_STATE_LOAD_SET_EVENT_COM Literal 120  
CRD$K_STATE_LOAD_SET_FLAGS_COM Literal 120  
CRD$K_STATE_LOAD_START_COM Literal 120  
CRD$K_STATE_PREPARATION_ERROR Literal 120  
CRD$K_STATE_SET_UP_DIAGNOSTIC Literal 120  
CRD$K_STATE_START Literal 120  
CRD$K_STATE_START_AUTOSIZER Literal 120  
CRD$K_STATE_START_ERROR Literal 120  
CRD$K_SUCCESS Literal Lib03 964 1056  
CRD$K_TEST_START_TEXT Literal 120  
CRD$K_TQ_INTERNAL_ERROR Literal 120  
CRD$K_TYPECODE Literal 120  
CRD$K_UDA_0_EVDLB Literal 120 492  
CRD$K_UDA_0_EVDLC Literal 120 512  
CRD$K_UDA_0_EVDLD Literal 120 533  
CRD$K_UDA_0_EVRLA_0 Literal 120 457  
CRD$K_UDA_0_LAST_DIAGNOSTIC Literal 120  
CRD$K_UDA_1_EVDLB Literal 120 617  
CRD$K_UDA_1_EVDLC Literal 120 637  
CRD$K_UDA_1_EVDLD Literal 120 658  
CRD$K_UDA_1_EVRLA_0 Literal 120 561  
CRD$K_UDA_1_EVRLA_1 Literal 120 595  
CRD$K_UDA_1_LAST_DIAGNOSTIC Literal 120
```

CRD\$K_UDA_2_EVDLB Literal 120 725																
CRD\$K_UDA_2_EVDLC Literal 120 745																
CRD\$K_UDA_2_EVDLD Literal 120 766																
CRD\$K_UDA_2_EVRLA_0 Literal 120 690																
CRD\$K_UDA_2_LAST_DIAGNOSTIC Literal 120 120																
CRD\$K_UDA_3_EVDLB Literal 120 850																
CRD\$K_UDA_3_EVDLC Literal 120 870																
CRD\$K_UDA_3_EVDLD Literal 120 891																
CRD\$K_UDA_3_EVRLA_0 Literal 120 794																
CRD\$K_UDA_3_EVRLA_1 Literal 120 828																
CRD\$K_UDA_3_LAST_DIAGNOSTIC Literal 120 120																
CRD\$NEW Unbound 199																
GlobRout	1009	Lib03e	115f	230c	265c	287c	307c	330c	358c	389c	452c					
	488c	508c	529c	556c	591c	613c	633c	654c	685c	721c						
	741c	762c	789c	824c	846c	866c	887c									
CRD\$PRINT External Lib03 230ac 252ac 265ac 280ac 287ac 300ac 307ac 323ac 330ac 343ac																
	358ac	376ac	389ac	404ac	452ac	474ac	488ac	501ac	508ac	522ac						
	529ac	542ac	556ac	578ac	591ac	606ac	613ac	626ac	633ac	647ac						
	654ac	667ac	685ac	707ac	721ac	734ac	741ac	755ac	762ac	775ac						
	789ac	811ac	824ac	839ac	846ac	859ac	866ac	880ac	887ac	900ac						
	951ac	1053ac	1061ac													
DDB MacrForm 183 189																
DDB\$B_STATUS_DDB_SIZE Macro	Lib03	249	278	297	320	340	373	402	471	498	519					
	539	575	604	623	644	664	704	731	752	772						
	808	837	856	877	897											
DDB\$V_STATUS_CHECK_DEVICE_TYPE Macro	Lib03	244	466	570	699	803	1003									
DDB\$V_STATUS_DEVICE_BAD Macro	Lib03	1002														
DDB\$V_STATUS_DEV_TEST_COMPLETE Macro	Lib03	998														
DDB\$V_STATUS_DIAGNOSTIC_ERROR Macro	Lib03	1000														
DDB\$V_STATUS_ESSENTIAL_DEVICE Macro	Lib03	241	275	317	369	399	463	567	601	696	800					
	834	1004														
DDB\$V_STATUS_MESSAGE_PRINTED Macro	Lib03	1005														
DDB\$V_STATUS_PREPARATION_ERROR Macro	Lib03	1001														
DDB_PTR Unbound 187 189 192 199 205																
Local	211	230a	230.	232a=	232.	233a=	233.	235a=	236a=	237a=	239.					
	241a=	244a=	249a=	253.	255.	258.	265a	265.	267.	269a=						
	270a=	271a=	273.	275a=	278a=	281.	287a	287.	289.	291a=						
	292a=	293a=	295.	297a=	301.	307a	307.	309.	311a=	312a=						
	313a=	315.	317a=	320a=	324.	330a	330.	332.	334a=	335a=						
	336a=	338.	340a=	358a	358.	360a=	360.	361a=	361.	363a=						
	364a=	365a=	367.	369a=	373a=	377.	379.	382.	389a	389.						
	391.	393a=	394a=	395a=	397.	399a=	402a=	405.	452a	452.						
	454a=	454.	455a=	455.	457a=	458a=	459a=	461.	463a=	466a=						
	471a=	475.	477.	480.	488a	488.	490.	492a=	493a=	494a=						
	496.	498a=	502.	508a	508.	510.	512a=	513a=	514a=	516.						
	519a=	523.	529a	529.	531.	533a=	534a=	535a=	537.	539a=						
	556a	556.	558a=	558.	559a=	559.	561a=	562a=	563a=	565.						
	567a=	570a=	575a=	579.	581.	584.	591a	591.	593.	595a=						
	596a=	597a=	599.	601a=	604a=	607.	613a	613.	615.	617a=						
	618a=	619a=	621.	623a=	627.	633a	633.	635.	637a=	638a=						
	639a=	641.	644a=	648.	654a	654.	656.	658a=	659a=	660a=						
	662.	664a=	685a	685.	687a=	687.	688a=	688.	690a=	691a=						
	692a=	694.	696a=	699a=	704a=	708.	710.	713.	721a	721.						

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 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
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Sequence 521

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_PRINTF	Literal	230	230
Literal	252	252	
Literal	265	265	
Literal	280	280	
Literal	287	287	
Literal	300	300	
Literal	307	307	
Literal	323	323	
Literal	330	330	
Literal	343	343	
Literal	358	358	
Literal	376	376	
Literal	389	389	
Literal	404	404	

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 522

Symbol Type Defined Referenced ...

Literal	452	452
Literal	474	474
Literal	488	488
Literal	501	501
Literal	508	508
Literal	522	522
Literal	529	529
Literal	542	542
Literal	556	556
Literal	578	578
Literal	591	591
Literal	606	606
Literal	613	613
Literal	626	626
Literal	633	633
Literal	647	647
Literal	654	654
Literal	667	667
Literal	685	685
Literal	707	707
Literal	721	721
Literal	734	734
Literal	741	741
Literal	755	755
Literal	762	762
Literal	775	775
Literal	789	789
Literal	811	811
Literal	824	824
Literal	839	839
Literal	846	846
Literal	859	859
Literal	866	866
Literal	880	880
Literal	887	887
Literal	900	900
Literal	951	951
Literal	1053	1053
Literal	1061	1061
DS\$K_PRINTI	Literal	230
Literal	252	
Literal	265	
Literal	280	
Literal	287	
Literal	300	
Literal	307	
Literal	323	
Literal	330	
Literal	343	
Literal	358	
Literal	376	
Literal	389	
Literal	404	

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 523

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_PRINTX	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 524

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE_ABORT PROGRAM	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 525

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE ABORT TEST	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 526

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_COMMAND_ERR	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

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 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 (DS.CRD.V020)CRDDDB.B32;1 (24)

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Sequence 527

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE COMMAND OUT	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 528

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE_CRD_AUTOTEST	Literal	230 230
Literal	252	252	
Literal	265	265	
Literal	280	280	
Literal	287	287	
Literal	300	300	
Literal	307	307	
Literal	323	323	
Literal	330	330	
Literal	343	343	
Literal	358	358	
Literal	376	376	
Literal	389	389	
Literal	404	404	

Symbol ----- Type Defined Referenced ...

Literal	452	452	
Literal	474	474	
Literal	488	488	
Literal	501	501	
Literal	508	508	
Literal	522	522	
Literal	529	529	
Literal	542	542	
Literal	556	556	
Literal	578	578	
Literal	591	591	
Literal	606	606	
Literal	613	613	
Literal	626	626	
Literal	633	633	
Literal	647	647	
Literal	654	654	
Literal	667	667	
Literal	685	685	
Literal	707	707	
Literal	721	721	
Literal	734	734	
Literal	741	741	
Literal	755	755	
Literal	762	762	
Literal	775	775	
Literal	789	789	
Literal	811	811	
Literal	824	824	
Literal	839	839	
Literal	846	846	
Literal	859	859	
Literal	866	866	
Literal	880	880	
Literal	887	887	
Literal	900	900	
Literal	951	951	
Literal	1053	1053	
Literal	1061	1061	
DS\$K_TYPE_DS_PROMPT	Literal		230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

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 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 530

Symbol	Type	Defined	Referenced	...
Literal		452		
Literal		474		
Literal		488		
Literal		501		
Literal		508		
Literal		522		
Literal		529		
Literal		542		
Literal		556		
Literal		578		
Literal		591		
Literal		606		
Literal		613		
Literal		626		
Literal		633		
Literal		647		
Literal		654		
Literal		667		
Literal		685		
Literal		707		
Literal		721		
Literal		734		
Literal		741		
Literal		755		
Literal		762		
Literal		775		
Literal		789		
Literal		811		
Literal		824		
Literal		839		
Literal		846		
Literal		859		
Literal		866		
Literal		880		
Literal		887		
Literal		900		
Literal		951		
Literal		1053		
Literal		1061		
DS\$K_TYPE_DS_START	Literal	230		
Literal		252		
Literal		265		
Literal		280		
Literal		287		
Literal		300		
Literal		307		
Literal		323		
Literal		330		
Literal		343		
Literal		358		
Literal		376		
Literal		389		
Literal		404		

Symbol ----- Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERRDEV	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

Symbol ----- Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERRHARD	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

E 10

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Sequence 533

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
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Literal	707		
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Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE ERROR BODY	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 534

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE_ERROR_END	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

G 10

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Sequence 535

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
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Literal	626		
Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERRPREP	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 536

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERRSOFT	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 537

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE ERRSUP	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Fiche 3 Frame J10
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Sequence 538

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERRSYS	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 539

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_ERR_HALT	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New L 10
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 540

Symbol Type Defined Referenced ...

L i t e r a l	452		
L i t e r a l	474		
L i t e r a l	488		
L i t e r a l	501		
L i t e r a l	508		
L i t e r a l	522		
L i t e r a l	529		
L i t e r a l	542		
L i t e r a l	556		
L i t e r a l	578		
L i t e r a l	591		
L i t e r a l	606		
L i t e r a l	613		
L i t e r a l	626		
L i t e r a l	633		
L i t e r a l	647		
L i t e r a l	654		
L i t e r a l	667		
L i t e r a l	685		
L i t e r a l	707		
L i t e r a l	721		
L i t e r a l	734		
L i t e r a l	741		
L i t e r a l	755		
L i t e r a l	762		
L i t e r a l	775		
L i t e r a l	789		
L i t e r a l	811		
L i t e r a l	824		
L i t e r a l	839		
L i t e r a l	846		
L i t e r a l	859		
L i t e r a l	866		
L i t e r a l	880		
L i t e r a l	887		
L i t e r a l	900		
L i t e r a l	951		
L i t e r a l	1053		
L i t e r a l	1061		
DS\$K TYPE EXCEPTION	Literal	230	
L i t e r a l	252		
L i t e r a l	265		
L i t e r a l	280		
L i t e r a l	287		
L i t e r a l	300		
L i t e r a l	307		
L i t e r a l	323		
L i t e r a l	330		
L i t e r a l	343		
L i t e r a l	358		
L i t e r a l	376		
L i t e r a l	389		
L i t e r a l	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 541

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Symbol Type Defined Referenced ...

Literal 452
 Literal 474
 Literal 488
 Literal 501
 Literal 508
 Literal 522
 Literal 529
 Literal 542
 Literal 556
 Literal 578
 Literal 591
 Literal 606
 Literal 613
 Literal 626
 Literal 633
 Literal 647
 Literal 654
 Literal 667
 Literal 685
 Literal 707
 Literal 721
 Literal 734
 Literal 741
 Literal 755
 Literal 762
 Literal 775
 Literal 789
 Literal 811
 Literal 824
 Literal 839
 Literal 846
 Literal 859
 Literal 866
 Literal 880
 Literal 887
 Literal 900
 Literal 951
 Literal 1053
 Literal 1061
 DS\$K TYPE EXCEPTION_HEAD Literal 230
 Literal 252
 Literal 265
 Literal 280
 Literal 287
 Literal 300
 Literal 307
 Literal 323
 Literal 330
 Literal 343
 Literal 358
 Literal 376
 Literal 389
 Literal 404

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 542

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
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Literal	741		
Literal	755		
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Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE_FIRST_PASS	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

Symbol	Type	Defined	Referenced	...
Literal		452		
Literal		474		
Literal		488		
Literal		501		
Literal		508		
Literal		522		
Literal		529		
Literal		542		
Literal		556		
Literal		578		
Literal		591		
Literal		606		
Literal		613		
Literal		626		
Literal		633		
Literal		647		
Literal		654		
Literal		667		
Literal		685		
Literal		707		
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Literal		789		
Literal		811		
Literal		824		
Literal		839		
Literal		846		
Literal		859		
Literal		866		
Literal		880		
Literal		887		
Literal		900		
Literal		951		
Literal		1053		
Literal		1061		
DS\$K_TYPE_GENERAL	Literal	230		
Literal		252		
Literal		265		
Literal		280		
Literal		287		
Literal		300		
Literal		307		
Literal		323		
Literal		330		
Literal		343		
Literal		358		
Literal		376		
Literal		389		
Literal		404		

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 544

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
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Literal	606		
Literal	613		
Literal	626		
Literal	633		
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Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_GENERAL_ERROR	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 545

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
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Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_NO_TESTS	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

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CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 546

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
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Literal	556		
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Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_PARAM_ERROR	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 547

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
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Literal	633		
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Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE PROGRAM END	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

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 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 548

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
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Literal	606		
Literal	613		
Literal	626		
Literal	633		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE PROGRAM INFO	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

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CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 549

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
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Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE PROGRAM START	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New I 11
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 550

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE_QIO_INVADP	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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 19-Sep-1985

Fiche 3 Frame J11
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Sequence 551

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE QIO_NODRIVER	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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 19-Sep-1985

Fiche 3 Frame K11
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Sequence 552

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_QIO_WRONGVER	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 553

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE SCRIPT ECHO	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New M 11
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

Fiche 3 Frame M11
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Sequence 554

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE SCRIPT PNF	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New N 11
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 555

Symbol Type Defined Referenced ...

Literal 452
Literal 474
Literal 488
Literal 501
Literal 508
Literal 522
Literal 529
Literal 542
Literal 556
Literal 578
Literal 591
Literal 606
Literal 613
Literal 626
Literal 633
Literal 647
Literal 654
Literal 667
Literal 685
Literal 707
Literal 721
Literal 734
Literal 741
Literal 755
Literal 762
Literal 775
Literal 789
Literal 811
Literal 824
Literal 839
Literal 846
Literal 859
Literal 866
Literal 880
Literal 887
Literal 900
Literal 951
Literal 1053
Literal 1061

DS\$K TYPE SCRIPT PROMPT Literal 230

Literal 252
Literal 265
Literal 280
Literal 287
Literal 300
Literal 307
Literal 323
Literal 330
Literal 343
Literal 358
Literal 376
Literal 389
Literal 404

ZZ-ENSAB-2.0 CRD\$New
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 556

Symbol	Type	Defined	Referenced ...
Literal		452	
Literal		474	
Literal		488	
Literal		501	
Literal		508	
Literal		522	
Literal		529	
Literal		542	
Literal		556	
Literal		578	
Literal		591	
Literal		606	
Literal		613	
Literal		626	
Literal		633	
Literal		647	
Literal		654	
Literal		667	
Literal		685	
Literal		707	
Literal		721	
Literal		734	
Literal		741	
Literal		755	
Literal		762	
Literal		775	
Literal		789	
Literal		811	
Literal		824	
Literal		839	
Literal		846	
Literal		859	
Literal		866	
Literal		880	
Literal		887	
Literal		900	
Literal		951	
Literal		1053	
Literal		1061	
DS\$K	TYPE_SCRIPT SKIP	Literal	230
Literal		252	
Literal		265	
Literal		280	
Literal		287	
Literal		300	
Literal		307	
Literal		323	
Literal		330	
Literal		343	
Literal		358	
Literal		376	
Literal		389	
Literal		404	

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE_SEQUENCE_ERROR	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Fiche 3 Frame D12
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Sequence 558

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE_START_ERR	Literal	230
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

Symbol

Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K	TYPE	START	LIST
Literal			230
Literal			252
Literal			265
Literal			280
Literal			287
Literal			300
Literal			307
Literal			323
Literal			330
Literal			343
Literal			358
Literal			376
Literal			389
Literal			404

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 (DS.CRD.V020)CRDDDB.B32;1 (24)

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Sequence 560

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K TYPE SUMMARY	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Fiche 3 Frame G12
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Sequence 561

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DS\$K_TYPE_USER_PROMPT	Literal	230	
Literal	252		
Literal	265		
Literal	280		
Literal	287		
Literal	300		
Literal	307		
Literal	323		
Literal	330		
Literal	343		
Literal	358		
Literal	376		
Literal	389		
Literal	404		

ZZ-ENSAB-2.0 CRD\$New
 CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
 01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24)

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Sequence 562

Symbol Type Defined Referenced ...

Literal	452		
Literal	474		
Literal	488		
Literal	501		
Literal	508		
Literal	522		
Literal	529		
Literal	542		
Literal	556		
Literal	578		
Literal	591		
Literal	606		
Literal	613		
Literal	626		
Literal	633		
Literal	647		
Literal	654		
Literal	667		
Literal	685		
Literal	707		
Literal	721		
Literal	734		
Literal	741		
Literal	755		
Literal	762		
Literal	775		
Literal	789		
Literal	811		
Literal	824		
Literal	839		
Literal	846		
Literal	859		
Literal	866		
Literal	880		
Literal	887		
Literal	900		
Literal	951		
Literal	1053		
Literal	1061		
DSASAL_APTMAIL	Bind	119	119
DSASGL_APTCOM	Bind	119	
DSASGL_DEVLEN	Bind	119	
DSASGL_DEVNAM	Bind	119	
DSASGL_ERRNO	Bind	119	
DSASGL_EVENT	Bind	119	
DSASGL_FLAGS	Bind	119	
DSASGL_MSGPTR	Bind	119	
DSASGL_MSGTYP	Bind	119	
DSASGL_PASSES	Bind	119	
DSASGL_PASSNO	Bind	119	
DSASGL_SECTNO	Bind	119	
DSASGL_SID	Bind	119	
DSASGL_SUBTNO	Bind	119	

Symbol	Type	Defined	Referenced	...
DSA\$GL_TESTNO	Bind	119		
DSA\$GL_UNITS	Bind	119		
FALSE	Literal	Lib03	1000	1001 1002 1003 1004 1005
GET1ST	Macro	Lib04	120 230 252 265 280 287 300 307 323 330	
		343 358 376 389 404 452 474 488 501 508		
		522 529 542 556 578 591 606 613 626 633		
		647 654 667 685 707 721 734 741 755 762		
		775 789 811 824 839 846 859 866 880 887		
		900 951 1053 1061		
GET2ND	Unbound	120 230 252 265 280 287 300 307 323 330		
		343 358 376 389 404 452 474 488 501 508		
		522 529 542 556 578 591 606 613 626 633		
		647 654 667 685 707 721 734 741 755 762		
		775 789 811 824 839 846 859 866 880 887		
		900 951 1053 1061		
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	120		
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	120		
HS\$K_ACTION_ADVANCE_STATE	Literal	120		
HS\$K_ACTION_CHANGE_TABLE	Literal	120		
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	120		
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	120		
HS\$K_ACTION_DO_NOTHING	Literal	120		
HS\$K_ACTION_DUMMY_3	Literal	120		
HS\$K_ACTION_DUMMY_4	Literal	120		
HS\$K_ACTION_DUMMY_5	Literal	120		
HS\$K_ACTION_DUMMY_6	Literal	120		
HS\$K_ACTION_INIT_HS	Literal	120		
HS\$K_ACTION_INTERNAL_ERROR	Literal	120		
HS\$K_ACTION_LAST_ACTION	Literal	120		
HS\$K_ACTION_LOAD_ERROR	Literal	120		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	120		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	120		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	120		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	120		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	120		
HS\$K_ACTION_LOAD_START_COM	Literal	120		
HS\$K_ACTION_PREPARATION_ERROR	Literal	120		
HS\$K_ACTION_START_ERROR	Literal	120		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	120		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	120		
HS\$K_STATE_CHANGE_TABLE	Literal	120		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	120		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	120		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	120		
HS\$K_STATE_DUMMY_1	Literal	120		
HS\$K_STATE_DUMMY_2	Literal	120		
HS\$K_STATE_DUMMY_3	Literal	120		
HS\$K_STATE_DUMMY_4	Literal	120		
HS\$K_STATE_DUMMY_6	Literal	120		
HS\$K_STATE_INIT_HS	Literal	120		
HS\$K_STATE_INTERNAL_ERROR	Literal	120		
HS\$K_STATE_LAST_STATE	Literal	120		
HS\$K_STATE_LOAD_ERROR	Literal	120		

Symbol	Type	Defined	Referenced	...
HSSK_STATE_LOAD_GENERAL_COM	Literal	120		
HSSK_STATE_LOAD_LOAD_COM	Literal	120		
HSSK_STATE_LOAD_SELECT_COM	Literal	120		
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	120		
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	120		
HSSK_STATE_LOAD_START_COM	Literal	120		
HSSK_STATE_PREPARATION_ERROR	Literal	120		
HSSK_STATE_START_ERROR	Literal	120		
INSQUE	Builtin	215 267 289	309 332 391 490 510 531 593 615	
		635 656 723 743 764 826 848 868 889		
IRP\$B_TYPE	Macro	Lib04 961		
IRP\$W_SIZE	Macro	Lib04 960		
JSB_ALLOC	Linkage	Lib01 1038		
JSB_DEALL	Linkage	Lib01 946		
MEN\$K_HS_STATE_TABLE	Literal	120		
MEN\$K_MM_STATE_TABLE	Literal	120		
MEN\$K_TQ_STATE_TABLE	Literal	120		
MENUS\$EXIT_AUTOSIZER_ERROR	Literal	120		
MENUS\$EXIT_INTERNAL_ERROR	Literal	120		
MENUS\$EXIT_LAST_REASON	Literal	120		
MENUS\$EXIT_OPERATOR_ABORT	Literal	120		
MENUS\$EXIT_OPERATOR_STOP	Literal	120		
MENUS\$EXIT_SUP_FILE_LOAD_ERR	Literal	120		
MENUS\$EXIT_SUP_FILE_NOT_FOUND	Literal	120		
MM\$K_ACTION_ADVANCE_STATE	Literal	120		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	120		
MM\$K_ACTION_BUILD_DDBS	Literal	120		
MM\$K_ACTION_BUILD_HSTS	Literal	120		
MM\$K_ACTION_CHANGE_TABLE	Literal	120		
MM\$K_ACTION_DONE_INITS	Literal	120		
MM\$K_ACTION_DO_NOTHING	Literal	120		
MM\$K_ACTION_DUMMY_3	Literal	120		
MM\$K_ACTION_DUMMY_4	Literal	120		
MM\$K_ACTION_DUMMY_5	Literal	120		
MM\$K_ACTION_DUMMY_6	Literal	120		
MM\$K_ACTION_DUMMY_7	Literal	120		
MM\$K_ACTION_DUMMY_8	Literal	120		
MM\$K_ACTION_INTERNAL_ERROR	Literal	120		
MM\$K_ACTION_LAST_ACTION	Literal	120		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	120		
MM\$K_ACTION_MENU_PROMPT	Literal	120		
MM\$K_ACTION_PRINT_MENU	Literal	120		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	120		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	120		
MM\$K_ACTION_START_AUTOSIZER	Literal	120		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	120		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	120		
MM\$K_STATE_BUILD_DDBS	Literal	120		
MM\$K_STATE_BUILD_HSTS	Literal	120		
MM\$K_STATE_CHANGE_TABLE	Literal	120		
MM\$K_STATE_DONE_INITS	Literal	120		
MM\$K_STATE_DUMMY_1	Literal	120		
MM\$K_STATE_DUMMY_2	Literal	120		

Symbol Type Defined Referenced ...

```

MM$K_STATE_DUMMY_3 Literal 120
MM$K_STATE_DUMMY_5 Literal 120
MM$K_STATE_DUMMY_7 Literal 120
MM$K_STATE_DUMMY_8 Literal 120
MM$K_STATE_INTERNAL_ERROR Literal 120
MM$K_STATE_LAST_STATE Literal 120
MM$K_STATE_LOAD_AUTOSIZER Literal 120
MM$K_STATE_MENU_PROMPT Literal 120
MM$K_STATE_PRINT_MENU Literal 120
MM$K_STATE_PRINT_MENU_HEADING Literal 120
MM$K_STATE_SET_FLAGS_AUTOSIZER Literal 120
MM$K_STATE_START Literal 120
MM$K_STATE_START_AUTOSIZER Literal 120
MODNAM Macro Lib01 136
NUL2ND_ Macro Lib04 120 230 252 265 280 287 300 307 323 330
    343 358 376 389 404 452 474 488 501 508
    522 529 542 556 578 591 606 613 626 633
    647 654 667 685 707 721 734 741 755 762
    775 789 811 824 839 846 859 866 880 887
    900 951 1053 1061
PREV_DDB_PTR Local 210 253= 267. 281= 289. 301= 309. 324= 332. 377= 391.
    405= 475= 490. 502= 510. 523= 531. 579= 593. 607=
    615. 627= 635. 648= 656. 708= 723. 735= 743. 756=
    764. 812= 826. 840= 848. 860= 868. 881= 889.
PRINT_DDB_STATUS Macro 183 252 280 300 323 343 376 404 474 501 522
    542 578 606 626 647 667 707 734 755 775
    811 839 859 880 900
RETURNED_SIZE Local 1035 1047= 1048. 1053. 1055. 1061.
SIZE Unbound 198 199
    Local 209 230= 230a 249. 265= 265a 278. 287= 287a 297. 307=
    307a 320. 330= 330a 340. 358= 358a 373. 389= 389a
    402. 452= 452a 471. 488= 488a 498. 508= 508a 519.
    529= 529a 539. 556= 556a 575. 591= 591a 604. 613=
    613a 623. 633= 633a 644. 654= 654a 664. 685= 685a
    704. 721= 721a 731. 741= 741a 752. 762= 762a 772.
    789= 789a 808. 824= 824a 837. 846= 846a 856. 866=
    866a 877. 887= 887a 897.
    RoutForm 913 951. 960.
    RoutForm 1009 1047a. 1048a. 1053a. 1055a= 1061a.
TQ$K_ACTION_ADVANCE STATE Literal 120
TQ$K_ACTION_CHANGE_TABLE Literal 120
TQ$K_ACTION_DONE_TEST_QUEUE Literal 120
TQ$K_ACTION_DO_NOTHING Literal 120
TQ$K_ACTION_DUMMY_3 Literal 120
TQ$K_ACTION_DUMMY_4 Literal 120
TQ$K_ACTION_DUMMY_5 Literal 120
TQ$K_ACTION_GET_DDB Literal 120
TQ$K_ACTION_INIT_TQ Literal 120
TQ$K_ACTION_INTERNAL_ERROR Literal 120
TQ$K_ACTION_LAST_ACTION Literal 120
TQ$K_STATE_CHANGE_TABLE Literal 120
TQ$K_STATE_DONE_TEST_QUEUE Literal 120
TQ$K_STATE_DUMMY_1 Literal 120
  
```

ZZ-ENSAB-2.0 CRD\$New L 12
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746
01-11 CRD\$New 3-Jan-1985 17:02:03 (DS.CRD.V020)CRDDDB.B32;1 (24)

Fiche 3 Frame L12
Page 107

Sequence 566

Symbol	Type	Defined	Referenced	...
TQ\$K_STATE_DUMMY_2	Literal	120		
TQ\$K_STATE_DUMMY_3	Literal	120		
TQ\$K_STATE_DUMMY_4	Literal	120		
TQ\$K_STATE_DUMMY_5	Literal	120		
TQ\$K_STATE_GET_DDB	Literal	120		
TQ\$K_STATE_INIT_TQ	Literal	120		
TQ\$K_STATE_INTERNAL_ERROR	Literal	120		
TQ\$K_STATE_LAST_STATE	Literal	120		
TRUE	Literal	Lib03 241 244 275 317 369 399 463 466 567 570		
		601 696 699 800 803 834 998		

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDDDB.B32;1
2	Module	CRDDDB
93	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
96	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
99	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
102	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
1066	Eludom	CRDDDB

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Total	Loaded	Percent	Pages	Processing	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	4	0	46			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	3	0	94			00:00.1
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	35	7	62			00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			5	0	1000	00:04.3

22-ENSAB-2.0 CRD\$New M 12
CRDDDB *** CRDDDB Module 19-Sep-1985 16:35:04 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame M12 Sequence 567
01-11 CRD\$New 3-Jan-1985 17:02:03 [DS.CRD.V020]CRDDDB.B32;1 (24) Page 108

; COMMAND QUALIFIERS

; BLISS CRDDDB.B32/LIST=CRDDDB.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDDDB.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 3443 code + 2727 data bytes

; Run Time: 02:19.5

; Elapsed Time: 14:13.7

; Lines/CPU Min: 458

; Lexemes/CPU-Min: 71590

; Memory Used: 1063 pages

; Compilation Complete

```
: 0001 0 xTITLE '*** CRDGENCOM Module'
: 0002 0 MODULE CRDGENCOM ( ! Manipulate the DS general command table
: 0003 0 IDENT = '01-02'
: 0004 0 ) =
: 0005 0 !+
: 0006 0 ! COPYRIGHT (c) 1980, 1981
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 ! REMAIN IN DEC.
: 0016 0 !
: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 !-
```

ZZ-ENSAB-2.0
CRDGENCOM ***
01-02

*** CRDGENCOM Module

CRDGENCOM Module

3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1

B13

19-Sep-1985

19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746

(2)

Fiche 3

Frame B13

Page

2

Sequence 569

```
; 0024 0 |**
; 0025 0 | Facility:
; 0026 0 |
; 0027 0 | Diagnostic Supervisor (part of the CRD-Loadable image).
; 0028 0 |
; 0029 0 | Abstract:
; 0030 0 |
; 0031 0 | Manipulate the DS general command table.
; 0032 0 |
; 0033 0 | Author:
; 0034 0 |
; 0035 0 | Jack Stansbury
; 0036 0 |
; 0037 0 | Creation Date:
; 0038 0 |
; 0039 0 | 14-April-1982
; 0040 0 |
; 0041 0 | Version:
; 0042 0 |
; 0043 0 | 6.7
; 0044 0 |
; 0045 0 | Modified By:
; 0046 0 |
; 0047 0 | 01 Jack Stansbury, Version 6.9, August 18, 1982
; 0048 0 | Changed the CLEAR FLAGS ALL general command to be SET FLAGS
; 0049 0 | DEFAULT . This may clear up a problem with the Menu Test prompts.
; 0050 0 |
; 0051 0 | 02 Jack Stansbury, Version 6.9, August 18, 1982
; 0052 0 | Nope, the above didn't work because the BINARY flag is cleared by
; 0053 0 | a SET FLAGS DEFAULT command.
; 0054 0 | --
```



```
: 0055 0 xSBTTL 'Libraries'
: 0056 1 BEGIN      ! Begin the CRDGENCOM module
: 0057 1
: 0058 1 LIBRARY
: 0059 1 '$DS';      ! Use Ds.L32 first
: 0060 1
: 0061 1 LIBRARY
: 0062 1 '$Diag';    ! Use Diag.L32 second
: 0063 1
: 0064 1 LIBRARY
: 0065 1 '$CRD';     ! Use CRD.L32 third
: 0066 1
: 0067 1 LIBRARY
: 0068 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```
: 0069 1 xSBTTL 'Table of Contents'
: 0070 1
: 0071 1 FORWARD ROUTINE
: 0072 1 CRD$Init_General_Com_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0073 1 ! Initialize the CRD$GA_General_Commands table
: 0074 1
: 0075 1 CRD$Get_General_Command : ADDRESSING_MODE (LONG_RELATIVE),
: 0076 1 ! Get the CRD$GA_General_Commands command pointer
: 0077 1
: 0078 1 CRD$Print_Command_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
: 0079 1 ! Print the contents of the general command table
```

ZZ-ENSAB-2.0 Included Macros and Literals E 13
CRDGENCOM *** CRDGENCOM Module 19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame E13 Sequence 572
01-02 Included Macros and Literals 3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1 Page 5 (5)

```
; 0080 1 xSBTTL 'Included Macros and Literals'
; 0081 1
; 0082 1 $CRD_Literals; ! Define the CRD literals
```

```
; 0083 1 xSBTTL 'Psect Definitions'
; 0084 1
; 0085 1 PSECT
; 0086 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0087 1
; 0088 1 PSECT
; 0089 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0090 1
; 0091 1 PSECT
; 0092 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0093 1
; 0094 1 PSECT
; 0095 1     GLOBAL = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0	Module-Global Static Storage	G 13	19-Sep-1985	Fiche 3	Frame G13	Sequence 574
CRDGENCOM ***	CRDGENCOM Module	19-Sep-1985 16:49:22	VAX-11 Bliss-32 V4.1-746	Page 7		
01-02	Module-Global Static Storage	3-Jan-1985 17:02:04	[DS.CRD.V020]CRDGENCOM.B32;1	(7)		

```
; 0096 1 xSBTTL 'Module-Global Static Storage'
; 0097 1
; 0098 1 ModNam ('CRDGENCOM'); ! Module name for ErrSup macro
```

ZZ-ENSAB-2.0 Global Own Storage H 13
CRDGENCOM *** CRDGENCOM Module 19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746 19-Sep-1985
01-02 Global Own Storage 3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1 Fiche 3 Frame H13
Page 8 Sequence 575
(8)

```
; 0099 1 xSBTTL 'Global Own Storage'
; 0100 1
; 0101 1 GLOBAL
; 0102 1 CRD$GL_Current_General_Com; ! The current general command pointer
```

ZZ-ENSAB-2.0 Local Macros
CRDGENCOM *** CRDGENCOM Module 19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746
01-02 Local Macros 3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1 (9)

I 13

19-Sep-1985

Fiche 3 Frame 113

Sequence 576

Page 9

```
: 0103 1 xSBTTL 'Local Macros'
: 0104 1
: 0105 1 MACRO
: M 0106 1 DS_Coms (DS_Command_String) =
: M 0107 1 xEXACTSTRING (CRD$K_DS_Command_Size, xC' ', DS_Command_String)
: 0108 1 x;
```

```

; 0109 1 xSBTTL 'Module-Global Bindings'
; 0110 1
; 0111 1 GLOBAL BIND
; 0112 1 CRD$GA_General_Commands =
; 0113 1 UPLIT (
; 0114 1   DS_Coms ('CLEAR FLAGS ALL'),      ![02]
; 0115 1   DS_Coms ('CLEAR EVENT FLAGS ALL'),
; 0116 1   DS_Coms ('DESELECT ALL')
; 0117 1 )
; 0118 1 : General_Command_Structure [CRD$K_Numb_General_Commands];
; 0119 1 ! This table contains the General DS Commands

```



```
: 0120 1 xSBTTL 'CRD$Init_General_Com_Table'
: 0121 1
: 0122 1 GLOBAL ROUTINE CRD$Init_General_Com_Table : NOVALUE =
: 0123 1
: 0124 1 !*
: 0125 1 ! Functional Description:
: 0126 1 !
: 0127 1 ! Initialize the data structures necessary to manipulate the CRD$GA_General_Commands table.
: 0128 1 !
: 0129 1 ! Formal Input Parameters:
: 0130 1 !
: 0131 1 ! None
: 0132 1 !
: 0133 1 ! Formal Output Parameters:
: 0134 1 !
: 0135 1 ! None
: 0136 1 !
: 0137 1 ! Side Effects:
: 0138 1 !
: 0139 1 ! None
: 0140 1 !
: 0141 1 ! Completion Codes:
: 0142 1 !
: 0143 1 ! None
: 0144 1 ! --
```

```
; 0145 2 BEGIN      ! Routine CRD$Init_General_Com_Table
; 0146 2
; 0147 2 CRD$GL_Current_General_Com = 0; ! Initialize to point to first one
; 0148 2
; 0149 1 END;      ! Routine CRD$Init_General_Com_Table
```

```
.TITLE CRDGENCOM *** CRDGENCOM Module
.IDENT \01-02\
```

```
.PSECT WORK,NOEXE,2
```

```
00000 CRD$GL_CURRENT_GENERAL_COM::
.BLK 4
```

```
.PSECT DATA,NOWRT,NOEXE, SHR,2
```

```
4D 4F 43 4E 45 47 44 52 43 09 00000 P.AAA: .ASCII <9>\CRDGENCOM\ ;
0000A .BLKB 2
4C 4C 41 20 53 47 41 4C 46 20 52 41 45 4C 43 0000C P.AAB: .ASCII \CLEAR FLAGS ALL \ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 0001B ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 0002A ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00034 .ASCII \ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00043 ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00052 ;
41 4C 46 20 54 4E 45 56 45 20 52 41 45 4C 43 0005C .ASCII \CLEAR EVENT FLAGS ALL \ ;
20 20 20 20 20 20 20 20 20 20 4C 4C 41 20 53 47 0006B ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 0007A ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00084 .ASCII \ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00093 ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000A2 ;
20 20 20 4C 4C 41 20 54 43 45 4C 45 53 45 44 000AC .ASCII \DESELECT ALL \ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000BB ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000CA ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000D4 .ASCII \ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000E3 ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 000F2 ;
```

```
$MODULE= P.AAA
CRD$GA_GENERAL_COMMANDS==
P.AAB
```

```
.EXTRN CRD$INIT_GENERAL_COM_TABLE
.EXTRN CRD$GET_GENERAL_COMMAND
.EXTRN CRD$PRINT_COMMAND_TABLE
```

```
.PSECT CODE,NOWRT, SHR, PIC,2
```

```
0000 00000 .ENTRY CRD$INIT_GENERAL_COM_TABLE, Save nothing ; 0122
00000000' EF D4 00002 CLRL CRD$GL_CURRENT_GENERAL_COM ; 0147
04 00008 RET ; 0149
```

```
; Routine Size: 9 bytes, Routine Base: CODE + 0000
```

```

; 0150 1 $SBTTL 'CRD$Get_General_Command'
; 0151 1
; 0152 1 GLOBAL ROUTINE CRD$Get_General_Command =
; 0153 1
; 0154 1 !++
; 0155 1 ! Functional Description:
; 0156 1 !
; 0157 1 ! Get a pointer to the general command.
; 0158 1 !
; 0159 1 ! Formal Input Parameters:
; 0160 1 !
; 0161 1 ! None
; 0162 1 !
; 0163 1 ! Formal Output Parameters:
; 0164 1 !
; 0165 1 ! None
; 0166 1 !
; 0167 1 ! Side Effects:
; 0168 1 !
; 0169 1 ! None
; 0170 1 !
; 0171 1 ! Completion Codes:
; 0172 1 !
; 0173 1 ! None - A pointer is returned.
; 0174 1 ! --

```

ZZ-ENSAB-2.0 CRD\$Get_General_Command N 13
 CRDGENCOM *** CRDGENCOM Module 19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame N13 Sequence 581
 01-02 CRD\$Get_General_Command 3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1 (14) Page 14

```

; 0175 2 BEGIN      ! Routine CRD$Get_General_Command
; 0176 2
; 0177 3 RETURN (CRD$GA_General_Commands [.CRD$GL_Current_General_Com])
; 0178 3
; 0179 1 END;      ! Routine CRD$Get_General_Command

```

```

      0000 00000 .ENTRY CRD$GET_GENERAL_COMMAND, Save nothing ; 0152
50 00000000' EF 00000050 8F C5 00002 MULL3 #80, CRD$GL_CURRENT_GENERAL_COM, R0 ; 0177
03 00000000' EF D1 0000E CMPL CRD$GL_CURRENT_GENERAL_COM, #3 ;
04 19 00015 BLSS 1$ ;
50 01 CE 00017 MNEGL #1, R0 ;
04 0001A RET ;
50 00000000' EF40 9E 0001B 1$: MOVAB CRD$GA_GENERAL_COMMANDS[R0], R0 ;
04 00023 RET ; 0179

```

; Routine Size: 36 bytes, Routine Base: CODE + 0009

```
; 0180 1 xSBTTL 'CRD$Print_Command_Table'
; 0181 1
; 0182 1 GLOBAL ROUTINE CRD$Print_Command_Table : NOVALUE =
; 0183 1
; 0184 1 !**
; 0185 1 ! Functional Description:
; 0186 1 !
; 0187 1 ! Print the contents of the general command table.
; 0188 1 !
; 0189 1 ! Formal Input Parameters:
; 0190 1 !
; 0191 1 ! None
; 0192 1 !
; 0193 1 ! Formal Output Parameters:
; 0194 1 !
; 0195 1 ! None
; 0196 1 !
; 0197 1 ! Side Effects:
; 0198 1 !
; 0199 1 ! None
; 0200 1 !
; 0201 1 ! Completion Codes:
; 0202 1 !
; 0203 1 ! None
; 0204 1 !
```

```

: 0205 2 BEGIN      ! Routine CRD$Print_Command_Tables
: 0206 2
: 0207 2 BIND
: 0208 2   Out_GC_Header = $ASCIC ('!//***** The General Command Table *****!//'),
: 0209 2   Out_GC_Table  = $ASCIC ('CRD$GA_General_Commands [!1UL]:!/ - .!AD.!//'),
: 0210 2   Out_Footer    = $ASCIC ('!//');
: 0211 2
: 0212 2   $CRD_Print (Out_GC_Header);
: 0213 2
: 0214 2   INCR GC_Com FROM 0 TO (CRD$K_Numb_General_Commands - 1) DO
: 0215 3   BEGIN
: P 0216 3     $CRD_Print (
: P 0217 3       Out_GC_Table,
: P 0218 3       .GC_Com,
: P 0219 3       CRD$K_DS_Command_Size,
: P 0220 3       CRD$GA_General_Commands [.GC_Com]
: 0221 3     );
: 0222 2   END;
: 0223 2
: 0224 2   $CRD_Print (Out_Footer);
: 0225 1 END;      ! Routine CRD$Print_Command_Tables

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2F 21 2F 21 45 000FC P.AAC: .ASCII \E!//***** The General Comm\ ;
65 47 20 65 68 54 20 2A 2A 2A 2A 2A 2A 2A 2A 0010B ;
      6D 6D 6F 43 20 6C 61 72 65 6E 0011A ;
2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 00124 .ASCII \and Table *****!/\ ;
2F 21 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 00133 ;
6C 61 72 65 6E 65 47 5F 41 47 24 44 52 43 2D 00142 P.AAD: .ASCII \-CRD$GA_General_Commands [!1UL]:!/ - .\ ;
55 31 21 5B 20 20 73 64 6E 61 6D 6D 6F 43 5F 00151 ;
      2E 20 2D 20 20 2F 21 3A 5D 4C 00160 ;
      2F 21 2E 44 41 21 0016A .ASCII \!AD.!/\ ;
      2F 21 2F 21 04 00170 P.AAE: .ASCII <4>\!//\ ;

```

```

OUT_GC_HEADER= P.AAC
OUT_GC_TABLE= P.AAD
OUT_FOOTER= P.AAE
.EXTRN CRD$PRINT

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0004 0000 .ENTRY CRD$PRINT_COMMAND_TABLE, Save R2 ; 0182
00000000 EF 9F 00002 PUSHAB OUT_GC_HEADER ; 0212
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, @CRD$PRINT ;
52 D4 00013 CLRL GC_COM ; 0214
50 52 00000050 8F C5 00015 1$: MULL3 #80, GC_COM, R0 ; 0221
03 52 D1 0001D CMPL GC_COM, #3 ;
05 19 00020 BLSS 2$ ;
7E 01 CE 00022 MNEGL #1, -(SP) ;
0A 11 00025 BRB 3$ ;

```

ZZ-ENSAB-2.0 CRD\$Print_Command_Table D 14
 CRDGENCOM *** CRDGENCOM Module 19-Sep-1985 16:49:22 VAX-11 Bliss-32 V4.1-746 Fiche 3 Frame D14
 01-02 CRD\$Print_Command_Table 3-Jan-1985 17:02:04 [DS.CRD.V020]CRDGENCOM.B32;1 (16) Page 17 Sequence 584

```

50 00000000'EF40 9E 00027 2$: MOVAB CRD$GA_GENERAL_COMMANDS[R0], R0 ;
50 DD 0002F PUSHL R0 ;
7E 50 8F 9A 00031 3$: MOVZBL #80, -(SP) ;
52 DD 00035 PUSHL GC_COM ;
00000000' EF 9F 00037 PUSHAB OUT_GC_TABLE ;
01 DD 0003D PUSHL #1 ;
1A DD 0003F PUSHL #26 ;
00000000G FF 06 FB 00041 CALLS #6, aCRD$PRINT ;
C9 52 02 F3 00048 AOBLEQ #2, GC_COM, 1$ ; 0214
00000000' EF 9F 0004C PUSHAB OUT_FOOTER ; 0224
01 DD 00052 PUSHL #1 ;
1A DD 00054 PUSHL #26 ;
00000000G FF 03 FB 00056 CALLS #3, aCRD$PRINT ;
04 0005D RET ; 0225

```

; Routine Size: 94 bytes, Routine Base: CODE + 002D

```

; 0226 1 END      ! End of CRDGENCOM module
; 0227 0 ELUDOM

```

```

;
; PSECT SUMMARY
;
; Name      Bytes      Attributes
;
; DATA      373 NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
; WORK        4 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; CODE      139 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

```

Symbol	Type		Defined	Referenced	...
\$ASCIC	Macro	Lib02	208	209	210
\$CRD_LITERALS	Macro	Lib03	82		
\$CRD_PRINT	Macro	Lib03	212	216	224
\$DS_TYPEDEF	Macro	Lib02	212	221	224
\$EQLST	Macro	Lib04	82	212	221 224
\$ER	Comptime		98		
\$MODULE	Bind		98		
AUTO\$K_EXIT_AUTOSIZER_ERKOR	Literal			82	
AUTO\$K_EXIT_CONTROL_C	Literal		82		
AUTO\$K_EXIT_DUMMY_2	Literal		82		
AUTO\$K_EXIT_DUMMY_3	Literal		82		
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal			82	
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal			82	
AUTO\$K_EXIT_INTERNAL_ERROR	Literal		82		
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal			82	
AUTO\$K_EXIT_LAST_REASON	Literal		82	82	
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal			82	
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal			82	
AUTO\$K_EXIT_NOERRORS_PREP	Literal		82		
CRD\$GA_GENERAL_COMMANDS	External	Lib03			
	GlobBind	112 177	221	221a	
CRD\$GET_GENERAL_COMMAND	GlobRout		152	Lib03e	75f
CRD\$GL_CURRENT_GENERAL_COM	Global		102	Lib03e	147= 177.
CRD\$INIT_GENERAL_COM_TABLE	GlobRout		122	Lib03e	72f
CRD\$K_ACTION_EQL_DO_NOTHING	Literal			82	
CRD\$K_ACTION_RANGE_ERROR	Literal			82	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal			82	
CRD\$K_ADVANCE_GENERAL_COM	Literal			82	
CRD\$K_ADVANCE_STATE	Literal		82		
CRD\$K_ALLOCATION_ERROR	Literal			82	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal			82	
CRD\$K_AUTOSIZER_ERROR	Literal			82	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal			82	

Symbol	Type	Defined	Referenced ...
CRD\$K_BAD_ACTION_NUMBER	Literal	82	
CRD\$K_BAD_TYPECODE_ERROR	Literal	82	
CRD\$K_BASE_SYSTEM_IDC	Literal	82	
CRD\$K_BASE_SYSTEM_LESI	Literal	82	
CRD\$K_BASE_SYSTEM_NULL	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	82	
CRD\$K_CRD_INITIALIZATION	Literal	82	
CRD\$K_CREATE_HST	Literal	82	
CRD\$K_DATA_LENGTH_ERROR	Literal	82	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_BLINK	Literal	82	
CRD\$K_DDB_FLINK	Literal	82	
CRD\$K_DDB_LAST_ENTRY	Literal	82	
CRD\$K_DDB_MEMORY_SIZE	Literal	82	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	82	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	82	
CRD\$K_DDB_PTABLE_ENTRY	Literal	82	
CRD\$K_DDB_STATUS	Literal	82	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	82	
CRD\$K_DEVICE_NAME	Literal	82	
CRD\$K_DIAGNOSTIC_ERROR	Literal	82	
CRD\$K_DIAGNOSTIC_NAME	Literal	82	
CRD\$K_DONE_GENERAL_COMS	Literal	82	
CRD\$K_DO_NOTHING	Literal	82	
CRD\$K_DS_COMMAND_SIZE	Unbound	107	
CRD\$K_DUMMY_10	Literal	82	
CRD\$K_DUMMY_11	Literal	82	
CRD\$K_DUMMY_12	Literal	82	
CRD\$K_DUMMY_13	Literal	82	
CRD\$K_DUMMY_3	Literal	82	
CRD\$K_DUMMY_4	Literal	82	
CRD\$K_DUMMY_5	Literal	82	
CRD\$K_DUMMY_6	Literal	82	
CRD\$K_DUMMY_7	Literal	82	
CRD\$K_DUMMY_8	Literal	82	
CRD\$K_DUMMY_9	Literal	82	
CRD\$K_EXIT_CRD	Literal	82	
CRD\$K_HOOK_POINT	Literal	82	
CRD\$K_HS_INTERNAL_ERROR	Literal	82	
CRD\$K_IDC_EVDLB	Literal	82	
CRD\$K_IDC_EVDLC	Literal	82	
CRD\$K_IDC_EVDLD	Literal	82	
CRD\$K_IDC_EVRAD_0	Literal	82	
CRD\$K_IDC_EVRAD_1	Literal	82	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_INTERNAL_ERROR	Literal	82	
CRD\$K_LAST_ACTION_ROUTINE	Literal	82	

Symbol Type Defined Referenced ...

CRD\$K_LAST_ENTRY	Literal	82		
CRD\$K_LAST_FUNCTION	Literal	82		
CRD\$K_LAST_HOOK_POINT	Literal	82		
CRD\$K_LAST_INTERNAL_ERROR	Literal	82		
CRD\$K_LAST_TYPE	Literal	82		
CRD\$K_LESI_ENWCA	Literal	82		
CRD\$K_LESI_EVRMB_0	Literal	82		
CRD\$K_LESI_EVRMB_1	Literal	82		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	82		
CRD\$K_LEVEL_4_PASSED	Literal	82		
CRD\$K_LOAD_AUTOSIZER	Literal	82		
CRD\$K_LOAD_ERROR	Literal	82		
CRD\$K_LOAD_GENERAL_COM	Literal	82		
CRD\$K_LOAD_LOAD_COM	Literal	82		
CRD\$K_LOAD_SELECT_COM	Literal	82		
CRD\$K_LOAD_SET_EVENT_COM	Literal	82		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	82		
CRD\$K_LOAD_START_COM	Literal	82		
CRD\$K_LOAD_SUP_FILE	Literal	82		
CRD\$K_MM_INTERNAL_ERROR	Literal	82		
CRD\$K_NEW_LINE	Literal	82		
CRD\$K_NUMB_GENERAL_COMMANDS	Literal	Lib03	118	214
CRD\$K_PREPARATION_ERROR	Literal	82		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	82		
CRD\$K_RUNTIME	Literal	82		
CRD\$K_SAME_LINE	Literal	82		
CRD\$K_SET_EVENT_ARGS	Literal	82		
CRD\$K_SET_FLAGS_ARGS	Literal	82		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	82		
CRD\$K_START	Literal	82		
CRD\$K_START_AUTOSIZER	Literal	82		
CRD\$K_START_ERROR	Literal	82		
CRD\$K_START_QUALIFIERS	Literal	82		
CRD\$K_STAR_LINE	Literal	82		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	82		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	82		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	82		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	82		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	82		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	82		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	82		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	82		
CRD\$K_STATE_DUMMY_1	Literal	82		
CRD\$K_STATE_DUMMY_10	Literal	82		
CRD\$K_STATE_DUMMY_12	Literal	82		
CRD\$K_STATE_DUMMY_13	Literal	82		
CRD\$K_STATE_DUMMY_2	Literal	82		
CRD\$K_STATE_DUMMY_3	Literal	82		
CRD\$K_STATE_DUMMY_4	Literal	82		
CRD\$K_STATE_DUMMY_6	Literal	82		
CRD\$K_STATE_DUMMY_7	Literal	82		

Symbol	Type	Defined	Referenced ...

CRD\$K_STATE_DUMMY_8	Literal	82	
CRD\$K_STATE_EXIT_CRD	Literal	82	
CRD\$K_STATE_INTERNAL_ERROR	Literal	82	
CRD\$K_STATE_LAST_STATE	Literal	82	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	82	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	82	
CRD\$K_STATE_LOAD_ERROR	Literal	82	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	82	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	82	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	82	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	82	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	82	
CRD\$K_STATE_LOAD_START_COM	Literal	82	
CRD\$K_STATE_PREPARATION_ERROR	Literal	82	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	82	
CRD\$K_STATE_START	Literal	82	
CRD\$K_STATE_START_AUTOSIZER	Literal	82	
CRD\$K_STATE_START_ERROR	Literal	82	
CRD\$K_TEST_START_TEXT	Literal	82	
CRD\$K_TQ_INTERNAL_ERROR	Literal	82	
CRD\$K_TYPECODE	Literal	82	
CRD\$K_UDA_0_EVDLB	Literal	82	
CRD\$K_UDA_0_EVDLC	Literal	82	
CRD\$K_UDA_0_EVDLD	Literal	82	
CRD\$K_UDA_0_EVRLA_0	Literal	82	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UDA_1_EVDLB	Literal	82	
CRD\$K_UDA_1_EVDLC	Literal	82	
CRD\$K_UDA_1_EVDLD	Literal	82	
CRD\$K_UDA_1_EVRLA_0	Literal	82	
CRD\$K_UDA_1_EVRLA_1	Literal	82	
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UDA_2_EVDLB	Literal	82	
CRD\$K_UDA_2_EVDLC	Literal	82	
CRD\$K_UDA_2_EVDLD	Literal	82	
CRD\$K_UDA_2_EVRLA_0	Literal	82	
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	82	
CRD\$K_UDA_3_EVDLB	Literal	82	
CRD\$K_UDA_3_EVDLC	Literal	82	
CRD\$K_UDA_3_EVDLD	Literal	82	
CRD\$K_UDA_3_EVRLA_0	Literal	82	
CRD\$K_UDA_3_EVRLA_1	Literal	82	
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	82	
CRD\$PRINT	External Lib03	212ac 221ac 224ac	
CRD\$PRINT_COMMAND_TABLE	GlobRout	182 Lib03e	78f
DS\$K_PRINTB	Literal	212	
Literal		221	
Literal		224	
DS\$K_PRINTF	Literal	212 212	
Literal		221 221	
Literal		224 224	
DS\$K_PRINTI	Literal	212	
Literal		221	

Symbol	Type	Defined	Referenced	...
DS\$K_PRINTX	Literal	224	212	
DS\$K_TYPE_ABORT_PROGRAM	Literal	221	212	
DS\$K_TYPE_ABORT_TEST	Literal	224	212	
DS\$K_TYPE_COMMAND_ERR	Literal	221	212	
DS\$K_TYPE_COMMAND_OUT	Literal	224	212	
DS\$K_TYPE_CRD_AUTOTEST	Literal	221	212	212
DS\$K_TYPE_DS_PROMPT	Literal	224	212	
DS\$K_TYPE_DS_START	Literal	221	212	
DS\$K_TYPE_ERRDEV	Literal	224	212	
DS\$K_TYPE_ERRHARD	Literal	221	212	
DS\$K_TYPE_ERROR_BODY	Literal	224	212	
DS\$K_TYPE_ERROR_END	Literal	221	212	
DS\$K_TYPE_ERRPREP	Literal	224	212	
DS\$K_TYPE_ERRSOFT	Literal	221	212	
DS\$K_TYPE_ERRSUP	Literal	224	212	
DS\$K_TYPE_ERRSYS	Literal	221	212	
DS\$K_TYPE_ERR_HALT	Literal	224	212	
DS\$K_TYPE_EXCEPTION	Literal	221	212	

Symbol	Type	Defined	Referenced ...
Literal	221		
Literal	224		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_FIRST_PASS	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_GENERAL	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_GENERAL_ERROR	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_NO_TESTS	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_PARAM_ERROR	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_PROGRAM_END	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_PROGRAM_INFO	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_PROGRAM_START	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_QIO_INVADP	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_QIO_NODRIVER	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_QIO_WRONGVER	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_SCRIPT_ECHO	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_SCRIPT_PNF	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_SCRIPT_PROMPT	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_SCRIPT_SKIP	Literal	212	
Literal	221		
Literal	224		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	212	
Literal	221		
Literal	224		

Symbol	Type	Defined	Referenced ...
DS\$K_TYPE_START_ERR	Literal	212	
Literal		221	
Literal		224	
DS\$K_TYPE_START_LIST	Literal	212	
Literal		221	
Literal		224	
DS\$K_TYPE_SUMMARY	Literal	212	
Literal		221	
Literal		224	
DS\$K_TYPE_USER_PROMPT	Literal	212	
Literal		221	
Literal		224	
DS_COMMAND_STRING	MacrForm	106 107	
DS_COMS	Macro	106 114 115 116	
GC_COM	Local	214 221	
GENERAL_COMMAND_STRUCTURE	Structur	Lib03 118	
GET1ST	Macro	Lib04 82 212 221 224	
GET2ND	Unbound	82 212 221 224	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	82	
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	82	
HS\$K_ACTION_ADVANCE_STATE	Literal	82	
HS\$K_ACTION_CHANGE_TABLE	Literal	82	
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	82	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	82	
HS\$K_ACTION_DO_NOTHING	Literal	82	
HS\$K_ACTION_DUMMY_3	Literal	82	
HS\$K_ACTION_DUMMY_4	Literal	82	
HS\$K_ACTION_DUMMY_5	Literal	82	
HS\$K_ACTION_DUMMY_6	Literal	82	
HS\$K_ACTION_INIT_HS	Literal	82	
HS\$K_ACTION_INTERNAL_ERROR	Literal	82	
HS\$K_ACTION_LAST_ACTION	Literal	82	
HS\$K_ACTION_LOAD_ERROR	Literal	82	
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	82	
HS\$K_ACTION_LOAD_LOAD_COM	Literal	82	
HS\$K_ACTION_LOAD_SELECT_COM	Literal	82	
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	82	
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	82	
HS\$K_ACTION_LOAD_START_COM	Literal	82	
HS\$K_ACTION_PREPARATION_ERROR	Literal	82	
HS\$K_ACTION_START_ERROR	Literal	82	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82	
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	82	
HS\$K_STATE_CHANGE_TABLE	Literal	82	
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	82	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82	
HS\$K_STATE_DONE_GENERAL_COMS	Literal	82	
HS\$K_STATE_DUMMY_1	Literal	82	
HS\$K_STATE_DUMMY_2	Literal	82	
HS\$K_STATE_DUMMY_3	Literal	82	
HS\$K_STATE_DUMMY_4	Literal	82	
HS\$K_STATE_DUMMY_6	Literal	82	
HS\$K_STATE_INIT_HS	Literal	82	

Symbol	Type	Defined	Referenced ...
HSSK_STATE_INTERNAL_ERROR	Literal	82	
HSSK_STATE_LAST_STATE	Literal	82	
HSSK_STATE_LOAD_ERROR	Literal	82	
HSSK_STATE_LOAD_GENERAL_COM	Literal	82	
HSSK_STATE_LOAD_LOAD_COM	Literal	82	
HSSK_STATE_LOAD_SELECT_COM	Literal	82	
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	82	
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	82	
HSSK_STATE_LOAD_START_COM	Literal	82	
HSSK_STATE_PREPARATION_ERROR	Literal	82	
HSSK_STATE_START_ERROR	Literal	82	
MEN\$K_HS_STATE_TABLE	Literal	82	
MEN\$K_MM_STATE_TABLE	Literal	82	
MEN\$K_TQ_STATE_TABLE	Literal	82	
MENUSK_EXIT_AUTOSIZER_ERROR	Literal	82	
MENUSK_EXIT_INTERNAL_ERROR	Literal	82	
MENUSK_EXIT_LAST_REASON	Literal	82	
MENUSK_EXIT_OPERATOR_ABORT	Literal	82	
MENUSK_EXIT_OPERATOR_STOP	Literal	82	
MENUSK_EXIT_SUP_FILE_LOAD_ERR	Literal	82	
MENUSK_EXIT_SUP_FILE_NOT_FOUND	Literal	82	
MM\$K_ACTION_ADVANCE_STATE	Literal	82	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	82	
MM\$K_ACTION_BUILD_DDBS	Literal	82	
MM\$K_ACTION_BUILD_HSTS	Literal	82	
MM\$K_ACTION_CHANGE_TABLE	Literal	82	
MM\$K_ACTION_DONE_INITS	Literal	82	
MM\$K_ACTION_DO_NOTHING	Literal	82	
MM\$K_ACTION_DUMMY_3	Literal	82	
MM\$K_ACTION_DUMMY_4	Literal	82	
MM\$K_ACTION_DUMMY_5	Literal	82	
MM\$K_ACTION_DUMMY_6	Literal	82	
MM\$K_ACTION_DUMMY_7	Literal	82	
MM\$K_ACTION_DUMMY_8	Literal	82	
MM\$K_ACTION_INTERNAL_ERROR	Literal	82	
MM\$K_ACTION_LAST_ACTION	Literal	82	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	82	
MM\$K_ACTION_MENU_PROMPT	Literal	82	
MM\$K_ACTION_PRINT_MENU	Literal	82	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	82	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	82	
MM\$K_ACTION_START_AUTOSIZER	Literal	82	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	82	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	82	
MM\$K_STATE_BUILD_DDBS	Literal	82	
MM\$K_STATE_BUILD_HSTS	Literal	82	
MM\$K_STATE_CHANGE_TABLE	Literal	82	
MM\$K_STATE_DONE_INITS	Literal	82	
MM\$K_STATE_DUMMY_1	Literal	82	
MM\$K_STATE_DUMMY_2	Literal	82	
MM\$K_STATE_DUMMY_3	Literal	82	
MM\$K_STATE_DUMMY_5	Literal	82	
MM\$K_STATE_DUMMY_7	Literal	82	

3-Jan-1985 17:02:04 (DS.CRD.V020)CRDGENCOM.B32:1 (17)

```

1 Source (start) DISK$DIAGPACK03:[DS.CRD.V020]CRDGENCOM.B32;1
2 Module CRDGENCOM
59 Library #1 DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
62 Library #2 DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
65 Library #3 DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
68 Library #4 SYS$COMMON:[SYSLIB]LIB.L32;2
227 Eludom CRDGENCOM

```


KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	----- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	2	0	94	00:00.2
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	11	2	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			3	0
				1000	00:04.2

COMMAND QUALIFIERS

BLISS CRDGENCOM.B32/LIST=CRDGENCOM.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDGENCOM.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 139 code + 377 data bytes
Run Time: 00:23.1
Elapsed Time: 00:43.9
Lines/CPU Min: 590
Lexemes/CPU-Min: 65479
Memory Used: 163 pages
Compilation Complete

```
: 0001 0
: 0002 0 *TITLE '*** CRDHDWSUP Module'
: 0003 0 MODULE CRDHDWSUP ( ! Contains the hardware support table and access routines
: 0004 0 IDENT = '01-05'
: 0005 0 ) =
: 0006 0 !*
: 0007 0 ! COPYRIGHT (c) 1980, 1981
: 0008 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0009 0 !
: 0010 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0011 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0012 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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: 0016 0 ! REMAIN IN DEC.
: 0017 0 !
: 0018 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0019 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0020 0 ! CORPORATION.
: 0021 0 !
: 0022 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0023 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0024 0 !
```

```

: 0025 0 !**
: 0026 0 ! Facility:
: 0027 0 !
: 0028 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
: 0029 0 !
: 0030 0 ! Abstract:
: 0031 0 !
: 0032 0 ! This module contains the Hardware_Support table as well as all associated
: 0033 0 ! data structures and accessing routines.
: 0034 0 !
: 0035 0 ! Author:
: 0036 0 !
: 0037 0 ! Jack Stansbury
: 0038 0 !
: 0039 0 ! Creation Date:
: 0040 0 !
: 0041 0 ! May 8, 1982
: 0042 0 !
: 0043 0 ! Version:
: 0044 0 !
: 0045 0 ! 6.9
: 0046 0 !
: 0047 0 ! Modified By:
: 0048 0 !
: 0049 0 ! 01 Jack Stansbury, Version 1.1, July 25, 1982
: 0050 0 !   Made some of the bindings local, instead of global.
: 0051 0 !
: 0052 0 ! 02 Jack Stansbury, Version 1.1, July 27, 1982
: 0053 0 !   Added the QUICK flag for EVDLC.
: 0054 0 !
: 0055 0 ! 03 Jack Stansbury, Version 1.1, August 20, 1982
: 0056 0 !   Took the EVSBA junk out of the Hardware Support Table.
: 0057 0 !
: 0058 0 ! 04 John Ciukaj, Version 1.2 6-Apr-1983
: 0059 0 !   - Added support for LESI/AZTEC Disk based
: 0060 0 !     and UDA/RA-disk based systems
: 0061 0 !
: 0062 0 ! 05 Scott Cohen Version 1.3 23-Sep-1983
: 0063 0 !   - Added ENWCA support for LCN PEARL system
: 0064 0 !   - Modified AZTEC generic name DAAn to DUAn ONLY FOR RELEASE 15
: 0065 0 !
: 0066 0 ! --

```

ZZ-ENSAB-2.0 Libraries
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746
01-05 Libraries 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (3)

D 15

19-Sep-1985

Fiche 3
Page

Frame D15
3

Sequence 597

```
: 0067 0 xSBTTL 'Libraries'
: 0068 1 BEGIN      ! Begin the CRDHDWSUP module
: 0069 1
: 0070 1 LIBRARY
: 0071 1 '$DS';      ! Use Ds.L32 first
: 0072 1
: 0073 1 LIBRARY
: 0074 1 '$Diag';    ! Use Diag.L32 second
: 0075 1
: 0076 1 LIBRARY
: 0077 1 '$CRD';     ! Use CRD.L32 third
: 0078 1
: 0079 1 LIBRARY
: 0080 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```
; 0081 1 xSBTTL 'Table of Contents'
; 0082 1
; 0083 1 FORWARD ROUTINE
; 0084 1 CRD$Build_Support_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0085 1 ! Initialize the Hardware Support table
; 0086 1
; 0087 1 CRD$Print_Hardware_Support : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0088 1 ! Print the contents of the hardware support table
```

ZZ-ENSAB-2.0 Included Macros and Literals F 15
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame F15 Sequence 599
01-05 Included Macros and Literals 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 Page 5 (5)

; 0089 1 xSBTTL 'Included Macros and Literals'
; 0090 1
; 0091 1 \$CRD_Literals; ! The CRD literals

```
; 0092 1 xSBTTL 'Psect Definitions'
; 0093 1
; 0094 1 PSECT
; 0095 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0096 1
; 0097 1 PSECT
; 0098 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0099 1
; 0100 1 PSECT
; 0101 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0102 1
; 0103 1 PSECT
; 0104 1     GLOBAL  = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Global Static Storage H 15
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 3 Frame H15 Sequence 601
01-05 Global Static Storage 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 Page 7 (7)

: 0105 1 xSBTTL 'Global Static Storage'
: 0106 1
: 0107 1 ModNam ('CRDHDWSUP'); ! Module name for ErrSup macro


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; 0108 1 xSBTTL 'Global Own Storage'
; 0109 1
; 0110 1 GLOBAL
; 0111 1 CRD$GB_Base_System: BYTE INITIAL (BYTE (CRD$K_Base_System_Null)),
; 0112 1 ! Location contains code specifying
; 0113 1 ! CRD Base System type. Initially,
; 0114 1 ! set to null. After Autosizer is run
; 0115 1 ! the correct system type will be determined
; 0116 1 ! and denoted here. [04]
; 0117 1 CRD$GA_Hdwr_Sprt_Table: LONG INITIAL (LONG (0)),
; 0118 1 ! Pointer to the Hardware Support Table
; 0119 1 ! to be used. After Autosizer is run
; 0120 1 ! the base system is determined, and
; 0121 1 ! on that basis the correct hardware
; 0122 1 ! support table pointer is loaded here. [04]
; 0123 1 CRD$AL_IDC_Hdwr_Sprt_Table :
; 0124 1 Hardware_Support_Structure [CRD$K_IDC_Numb_Diagnostics, CRD$K_Numb_Support_Entries],
; 0125 1 ! Hardware Support Table for IDCbased system [04]
; 0126 1 CRD$AL_LESI_Hdwr_Sprt_Table :
; 0127 1 Hardware_Support_Structure [CRD$K_LESI_Numb_Diagnostics, CRD$K_Numb_Support_Entries],
; 0128 1 ! Hardware Support Table for LESI/AZTEC based system [04]
; 0129 1 CRD$AL_UDA_0_Hdwr_Sprt_Table :
; 0130 1 Hardware_Support_Structure [CRD$K_UDA_0_Numb_Diagnostics, CRD$K_Numb_Support_Entries],
; 0131 1 ! Hardware Support Table for UDA based system
; 0132 1 ! with no RA60 Drive 1, RA80 or 81 Drive 0 [04]
; 0133 1 CRD$AL_UDA_1_Hdwr_Sprt_Table :
; 0134 1 Hardware_Support_Structure [CRD$K_UDA_1_Numb_Diagnostics, CRD$K_Numb_Support_Entries],
; 0135 1 ! Hardware Support Table for UDA based system
; 0136 1 ! with RA60 Drive 1, RA80 or 81 Drive 0 [04]
; 0137 1 CRD$AL_UDA_2_Hdwr_Sprt_Table :
; 0138 1 Hardware_Support_Structure [CRD$K_UDA_2_Numb_Diagnostics, CRD$K_Numb_Support_Entries],
; 0139 1 ! Hardware Support Table for UDA based system
; 0140 1 ! with no RA60 Drive 1, RA60 Drive 0 [04]
; 0141 1 CRD$AL_UDA_3_Hdwr_Sprt_Table :
; 0142 1 Hardware_Support_Structure [CRD$K_UDA_3_Numb_Diagnostics, CRD$K_Numb_Support_Entries];
; 0143 1 ! Hardware Support Table for UDA based system
; 0144 1 ! with RA60 Drive 1, RA60 Drive 0 [04]

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; 0145 1 xSBTTL 'Local Bindings for IDC based system'
; 0146 1
; 0147 1 BIND                ![[04]]
; 0148 1
; 0149 1 !+
; 0150 1 ! This data for EVRAD is for the R80 or the RL02 (on DQA0) test.
; 0151 1 ! Leave the Test_Start_Text device name field blank as a default. The field will be filled
; 0152 1 ! in later if the device can be attached by the AutoSizer.
; 0153 1 !-
; 0154 1
; 0155 1 CRD$GT_IDC_EVRAD_0 = $ASCIC ('EVRAD'),
; 0156 1 CRD$GT_IDC_EVRAD_0_Set_Flags = $ASCIC ('QUICK'),
; 0157 1 CRD$GT_IDC_EVRAD_0_Set_Evnt = $ASCIC (''),
; 0158 1 CRD$GT_IDC_EVRAD_0_Dev_Name = $ASCIC ('DQA0'),
; 0159 1 ! CRD$GT_IDC_EVRAD_0_Dev_Name = $ASCIC ('TTA6'),
; 0160 1 CRD$GT_IDC_EVRAD_0_Strt_Qual = $ASCIC (''),
; 0161 1 CRD$GT_IDC_EVRAD_0_Tst_Strt = $ASCIC ('', DQA0'),
; 0162 1 CRD$GT_IDC_EVRAD_0_RunTime = $ASCIC ('0:30'),
; 0163 1 CRD$GT_IDC_EVRAD_0_Prep_Err = $ASCIC ('DQA0: DISK DRIVE TESTING INCOMPLETE'),
; 0164 1
; 0165 1 !+
; 0166 1 ! This data for EVRAD is for the RL02 (on DQA1) test.
; 0167 1 !-
; 0168 1
; 0169 1 CRD$GT_IDC_EVRAD_1 = $ASCIC ('EVRAD'),
; 0170 1 CRD$GT_IDC_EVRAD_1_Set_Flags = $ASCIC ('QUICK'),
; 0171 1 CRD$GT_IDC_EVRAD_1_Set_Evnt = $ASCIC (''),
; 0172 1 CRD$GT_IDC_EVRAD_1_Dev_Name = $ASCIC ('DQA1'),
; 0173 1 ! CRD$GT_IDC_EVRAD_1_Dev_Name = $ASCIC ('TTA6'),
; 0174 1 CRD$GT_IDC_EVRAD_1_Strt_Qual = $ASCIC (''),
; 0175 1 CRD$GT_IDC_EVRAD_1_Tst_Strt = $ASCIC ('RL02 PART 2 DQA1'),
; 0176 1 CRD$GT_IDC_EVRAD_1_RunTime = $ASCIC ('0:30'),
; 0177 1 CRD$GT_IDC_EVRAD_1_Prep_Err = $ASCIC ('DQA1: DISK DRIVE TESTING INCOMPLETE'),
; 0178 1
; 0179 1 !+
; 0180 1 ! This data for EVDLB is for the XGA0 (on the Combo board) test.
; 0181 1 !-
; 0182 1
; 0183 1 CRD$GT_IDC_EVDLB = $ASCIC ('EVDLB'),
; 0184 1 CRD$GT_IDC_EVDLB_Set_Flags = $ASCIC (''),
; 0185 1 CRD$GT_IDC_EVDLB_Set_Evnt = $ASCIC (''),
; 0186 1 CRD$GT_IDC_EVDLB_Dev_Name = $ASCIC ('XGA0'),
; 0187 1 ! CRD$GT_IDC_EVDLB_Dev_Name = $ASCIC ('TTA6'),
; 0188 1 CRD$GT_IDC_EVDLB_Strt_Qual = $ASCIC (''),
; 0189 1 CRD$GT_IDC_EVDLB_Tst_Strt = $ASCIC ('DMF32S XGA0'),
; 0190 1 CRD$GT_IDC_EVDLB_RunTime = $ASCIC ('1:00'),
; 0191 1 CRD$GT_IDC_EVDLB_Prep_Err = $ASCIC ('XGA0: COMBO BOARD TESTING INCOMPLETE'),
; 0192 1
; 0193 1 !+
; 0194 1 ! This data for EVDLC is for the TXA (on the Combo board) test.
; 0195 1 !-
; 0196 1
; 0197 1 CRD$GT_IDC_EVDLC = $ASCIC ('EVDLC'),
; 0198 1 CRD$GT_IDC_EVDLC_Set_Flags = $ASCIC ('QUICK'),
; 0199 1 CRD$GT_IDC_EVDLC_Set_Evnt = $ASCIC (''),
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; 0200 1 CRD$GT_IDC_EVDLC_Dev_Name      = $ASCIC ('TXA'),
; 0201 1 ! CRD$GT_IDC_EVDLC_Dev_Name    = $ASCIC ('TTA6'),
; 0202 1 CRD$GT_IDC_EVDLC_Strt_Qual     = $ASCIC (''),
; 0203 1 CRD$GT_IDC_EVDLC_Tst_Strt     = $ASCIC ('DMF32A TXA0-TXA7'),
; 0204 1 CRD$GT_IDC_EVDLC_RunTime      = $ASCIC ('0:30'),
; 0205 1 CRD$GT_IDC_EVDLC_Prep_Err     = $ASCIC ('TXA: COMBO BOARD TESTING INCOMPLETE'),
; 0206 1
; 0207 1 !+
; 0208 1 ! This data for EVDLD is for the LCA (on the Combo board) test.
; 0209 1 !-
; 0210 1
; 0211 1 CRD$GT_IDC_EVDLD              = $ASCIC ('EVDLD'),
; 0212 1 CRD$GT_IDC_EVDLD_Set_Flags    = $ASCIC (''),
; 0213 1 CRD$GT_IDC_EVDLD_Set_Evnt     = $ASCIC (''),
; 0214 1 CRD$GT_IDC_EVDLD_Dev_Name     = $ASCIC ('LCA'),
; 0215 1 ! CRD$GT_IDC_EVDLD_Dev_Name    = $ASCIC ('TTA6'),
; 0216 1 CRD$GT_IDC_EVDLD_Strt_Qual    = $ASCIC (''),
; 0217 1 CRD$GT_IDC_EVDLD_Tst_Strt     = $ASCIC ('DMF32P LCA'),
; 0218 1 CRD$GT_IDC_EVDLD_RunTime      = $ASCIC ('0:15'),
; 0219 1 CRD$GT_IDC_EVDLD_Prep_Err     = $ASCIC ('LCA: COMBO BOARD TESTING INCOMPLETE');
; 0220 1
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; 0221 1
; 0222 1 xSBTTL 'Local Bindings for LESI/AZTEC based system'
; 0223 1
; 0224 1 BIND                !![04]
; 0225 1
; 0226 1 !+
; 0227 1 ! This data for EVRMB is for the RC25 (on DAA0) test.
; 0228 1 !-
; 0229 1
; 0230 1 CRD$GT_LESI_EVRMB_0 = $ASCIC ('EVRMB'),
; 0231 1 CRD$GT_LESI_EVRMB_0_Set_Flags = $ASCIC ('QUICK'),
; 0232 1 CRD$GT_LESI_EVRMB_0_Set_Evnt = $ASCIC (''),
; 0233 1 CRD$GT_LESI_EVRMB_0_Dev_Name = $ASCIC ('DAA0'),
; 0234 1 ! CRD$GT_LESI_EVRMB_0_Dev_Name = $ASCIC ('TTA6'),
; 0235 1 CRD$GT_LESI_EVRMB_0_Strt_Qual = $ASCIC ('/SECTION:CRD'),
; 0236 1 CRD$GT_LESI_EVRMB_0_Tst_Strt = $ASCIC ('RC25 PART 2 DAA0'),
; 0237 1 CRD$GT_LESI_EVRMB_0_RunTime = $ASCIC ('1:00'),
; 0238 1 CRD$GT_LESI_EVRMB_0_Prep_Err = $ASCIC ('DAA0: DISK DRIVE TESTING INCOMPLETE'),
; 0239 1
; 0240 1 !+
; 0241 1 ! This data for EVRMB is for the RCF25 (on DAA1) test.
; 0242 1 !-
; 0243 1
; 0244 1 CRD$GT_LESI_EVRMB_1 = $ASCIC ('EVRMB'),
; 0245 1 CRD$GT_LESI_EVRMB_1_Set_Flags = $ASCIC ('QUICK'),
; 0246 1 CRD$GT_LESI_EVRMB_1_Set_Evnt = $ASCIC (''),
; 0247 1 CRD$GT_LESI_EVRMB_1_Dev_Name = $ASCIC ('DAA1'),
; 0248 1 ! CRD$GT_LESI_EVRMB_1_Dev_Name = $ASCIC ('TTA6'),
; 0249 1 CRD$GT_LESI_EVRMB_1_Strt_Qual = $ASCIC ('/SECTION:CRD'),
; 0250 1 CRD$GT_LESI_EVRMB_1_Tst_Strt = $ASCIC ('RCF25 DAA1'),
; 0251 1 CRD$GT_LESI_EVRMB_1_RunTime = $ASCIC ('1:00'),
; 0252 1 CRD$GT_LESI_EVRMB_1_Prep_Err = $ASCIC ('DAA1: DISK DRIVE TESTING INCOMPLETE')
; 0253 1 ;
; 0254 1
; 0255 1
; 0256 1 ! !+
; 0257 1 ! ! This data for ENWCA is for the VS125 test.
; 0258 1 ! !-
; 0259 1 ! !
; 0260 1 ! CRD$GT_LESI_ENWCA = $ASCIC ('ENWCA'), !![05]
; 0261 1 ! CRD$GT_LESI_ENWCA_Set_Flags = $ASCIC ('QUICK'),
; 0262 1 ! CRD$GT_LESI_ENWCA_Set_Evnt = $ASCIC (''),
; 0263 1 ! CRD$GT_LESI_ENWCA_Dev_Name = $ASCIC ('VBA0'),
; 0264 1 ! CRD$GT_LESI_ENWCA_Strt_Qual = $ASCIC ('/SECTION:MICRO'),
; 0265 1 ! CRD$GT_LESI_ENWCA_Tst_Strt = $ASCIC ('VS125 VBA0'),
; 0266 1 ! CRD$GT_LESI_ENWCA_RunTime = $ASCIC ('0:30'),
; 0267 1 ! CRD$GT_LESI_ENWCA_Prep_Err = $ASCIC ('VBA0: TERMINAL DRIVE TESTING INCOMPLETE');
; 0268 1
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0269 1
0270 1
0271 1 xSBTTL 'Bindings for UDA based system, no RA60 Dr1, RA80 or 81 Dr0'
0272 1
0273 1 BIND          ![[04]
0274 1
0275 1 !+
0276 1 ! This data for EVRLA is for the RA-disk on drive 0
0277 1 ! Leave the Test_Start_Text device name field blank as a default. The field will be filled
0278 1 ! in later if the device can be attached by the AutoSizer.
0279 1 !-
0280 1
0281 1 CRD$GT_UDA_0_EVRLA_0 = $ASCIC ('EVRLA'),
0282 1 CRD$GT_UDA_0_EVRLA_0_Set_Flgs = $ASCIC ('QUICK'),
0283 1 CRD$GT_UDA_0_EVRLA_0_Set_Evnt = $ASCIC (''),
0284 1 CRD$GT_UDA_0_EVRLA_0_Dev_Name = $ASCIC ('DUA0'),
0285 1 ! CRD$GT_UDA_0_EVRLA_0_Dev_Name = $ASCIC ('TTA6'),
0286 1 CRD$GT_UDA_0_EVRLA_0_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
0287 1 CRD$GT_UDA_0_EVRLA_0_Tst_Strt = $ASCIC ('PART 2 DUA0'),
0288 1 CRD$GT_UDA_0_EVRLA_0_RunTime = $ASCIC ('2:45'),
0289 1 CRD$GT_UDA_0_EVRLA_0_Prep_Err = $ASCIC ('DUA0: DISK DRIVE TESTING INCOMPLETE'),
0290 1
0291 1 !+
0292 1 ! This data for EVDLB is for the XGA0 (on the Combo board) test.
0293 1 !-
0294 1
0295 1 CRD$GT_UDA_0_EVDLB = $ASCIC ('EVDLB'),
0296 1 CRD$GT_UDA_0_EVDLB_Set_Flgs = $ASCIC (''),
0297 1 CRD$GT_UDA_0_EVDLB_Set_Evnt = $ASCIC (''),
0298 1 CRD$GT_UDA_0_EVDLB_Dev_Name = $ASCIC ('XGA0'),
0299 1 ! CRD$GT_UDA_0_EVDLB_Dev_Name = $ASCIC ('TTA6'),
0300 1 CRD$GT_UDA_0_EVDLB_Strt_Qual = $ASCIC (''),
0301 1 CRD$GT_UDA_0_EVDLB_Tst_Strt = $ASCIC ('DMF32S XGA0'),
0302 1 CRD$GT_UDA_0_EVDLB_RunTime = $ASCIC ('1:00'),
0303 1 CRD$GT_UDA_0_EVDLB_Prep_Err = $ASCIC ('XGA0: COMBO BOARD TESTING INCOMPLETE'),
0304 1
0305 1 !+
0306 1 ! This data for EVDLC is for the TXA (on the Combo board) test.
0307 1 !-
0308 1
0309 1 CRD$GT_UDA_0_EVDLC = $ASCIC ('EVDLC'),
0310 1 CRD$GT_UDA_0_EVDLC_Set_Flgs = $ASCIC ('QUICK'),
0311 1 CRD$GT_UDA_0_EVDLC_Set_Evnt = $ASCIC (''),
0312 1 CRD$GT_UDA_0_EVDLC_Dev_Name = $ASCIC ('TXA'),
0313 1 ! CRD$GT_UDA_0_EVDLC_Dev_Name = $ASCIC ('TTA6'),
0314 1 CRD$GT_UDA_0_EVDLC_Strt_Qual = $ASCIC (''),
0315 1 CRD$GT_UDA_0_EVDLC_Tst_Strt = $ASCIC ('DMF32A TXA0-TXA7'),
0316 1 CRD$GT_UDA_0_EVDLC_RunTime = $ASCIC ('0:30'),
0317 1 CRD$GT_UDA_0_EVDLC_Prep_Err = $ASCIC ('TXA: COMBO BOARD TESTING INCOMPLETE'),
0318 1
0319 1 !+
0320 1 ! This data for EVDLD is for the LCA (on the Combo board) test.
0321 1 !-
0322 1
0323 1 CRD$GT_UDA_0_EVDLD = $ASCIC ('EVDLD'),
  
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; 0324 1 CRD$GT_UDA_0_EVDLD_Set_Flags = $ASCIC (''),
; 0325 1 CRD$GT_UDA_0_EVDLD_Set_Evnt = $ASCIC (''),
; 0326 1 CRD$GT_UDA_0_EVDLD_Dev_Name = $ASCIC ('LCA'),
; 0327 1 ! CRD$GT_UDA_0_EVDLD_Dev_Name = $ASCIC ('TTA6'),
; 0328 1 CRD$GT_UDA_0_EVDLD_Strt_Qual = $ASCIC (''),
; 0329 1 CRD$GT_UDA_0_EVDLD_Tst_Strt = $ASCIC ('DMF32P LCA'),
; 0330 1 CRD$GT_UDA_0_EVDLD_RunTime = $ASCIC ('0:15'),
; 0331 1 CRD$GT_UDA_0_EVDLD_Prep_Err = $ASCIC ('LCA: COMBO BOARD TESTING INCOMPLETE');
; 0332 1
; 0333 1
; 0334 1
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; 0335 1
; 0336 1 xSBTTL 'Bindings for UDA based system, RA60 Dr1, RA80 or 81 Dr0'
; 0337 1
; 0338 1 BIND          ![(04)]
; 0339 1
; 0340 1 !+
; 0341 1 ! This data for EVRLA is for the RA-disk on Drive 0 test.
; 0342 1 ! Leave the Test_Start_Text device name field blank as a default. The field will be filled
; 0343 1 ! in later if the device can be attached by the AutoSizer.
; 0344 1 !-
; 0345 1
; 0346 1 CRD$GT_UDA_1_EVRLA_0 = $ASCIC ('EVRLA'),
; 0347 1 CRD$GT_UDA_1_EVRLA_0_Set_Flgs = $ASCIC ('QUICK'),
; 0348 1 CRD$GT_UDA_1_EVRLA_0_Set_Evnt = $ASCIC (''),
; 0349 1 CRD$GT_UDA_1_EVRLA_0_Dev_Name = $ASCIC ('DUA0'),
; 0350 1 ! CRD$GT_UDA_1_EVRLA_0_Dev_Name = $ASCIC ('TTA6'),
; 0351 1 CRD$GT_UDA_1_EVRLA_0_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
; 0352 1 CRD$GT_UDA_1_EVRLA_0_Tst_Strt = $ASCIC ('          DUA0'),
; 0353 1 CRD$GT_UDA_1_EVRLA_0_RunTime = $ASCIC ('2:45'),
; 0354 1 CRD$GT_UDA_1_EVRLA_0_Prep_Err = $ASCIC ('DUA0: DISK DRIVE TESTING INCOMPLETE'),
; 0355 1
; 0356 1 !+
; 0357 1 ! This data for EVRLA is for the Drive 1 test.
; 0358 1 !-
; 0359 1
; 0360 1 CRD$GT_UDA_1_EVRLA_1 = $ASCIC ('EVRLA'),
; 0361 1 CRD$GT_UDA_1_EVRLA_1_Set_Flgs = $ASCIC ('QUICK'),
; 0362 1 CRD$GT_UDA_1_EVRLA_1_Set_Evnt = $ASCIC (''),
; 0363 1 CRD$GT_UDA_1_EVRLA_1_Dev_Name = $ASCIC ('DJA1'),
; 0364 1 ! CRD$GT_UDA_1_EVRLA_1_Dev_Name = $ASCIC ('TTA6'),
; 0365 1 CRD$GT_UDA_1_EVRLA_1_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
; 0366 1 CRD$GT_UDA_1_EVRLA_1_Tst_Strt = $ASCIC ('RA60 PART 2  DJA1'),
; 0367 1 CRD$GT_UDA_1_EVRLA_1_RunTime = $ASCIC ('1:00'),
; 0368 1 CRD$GT_UDA_1_EVRLA_1_Prep_Err = $ASCIC ('DJA1: DISK DRIVE TESTING INCOMPLETE'),
; 0369 1
; 0370 1 !+
; 0371 1 ! This data for EVDLB is for the XGA0 (on the Combo board) test.
; 0372 1 !-
; 0373 1
; 0374 1 CRD$GT_UDA_1_EVDLB = $ASCIC ('EVDLB'),
; 0375 1 CRD$GT_UDA_1_EVDLB_Set_Flgs = $ASCIC (''),
; 0376 1 CRD$GT_UDA_1_EVDLB_Set_Evnt = $ASCIC (''),
; 0377 1 CRD$GT_UDA_1_EVDLB_Dev_Name = $ASCIC ('XGA0'),
; 0378 1 ! CRD$GT_UDA_1_EVDLB_Dev_Name = $ASCIC ('TTA6'),
; 0379 1 CRD$GT_UDA_1_EVDLB_Strt_Qual = $ASCIC (''),
; 0380 1 CRD$GT_UDA_1_EVDLB_Tst_Strt = $ASCIC ('DMF32S          XGA0'),
; 0381 1 CRD$GT_UDA_1_EVDLB_RunTime = $ASCIC ('1:00'),
; 0382 1 CRD$GT_UDA_1_EVDLB_Prep_Err = $ASCIC ('XGA0: COMBO BOARD TESTING INCOMPLETE'),
; 0383 1
; 0384 1 !+
; 0385 1 ! This data for EVDLC is for the TXA (on the Combo board) test.
; 0386 1 !-
; 0387 1
; 0388 1 CRD$GT_UDA_1_EVDLC = $ASCIC ('EVDLC'),
; 0389 1 CRD$GT_UDA_1_EVDLC_Set_Flgs = $ASCIC ('QUICK'),

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: 0390 1 CRD$GT_UDA_1_EVDLC_Set_Evnt = $ASCIC (''),
: 0391 1 CRD$GT_UDA_1_EVDLC_Dev_Name = $ASCIC ('TXA'),
: 0392 1 ! CRD$GT_UDA_1_EVDLC_Dev_Name = $ASCIC ('TTA6'),
: 0393 1 CRD$GT_UDA_1_EVDLC_Strt_Qual = $ASCIC (''),
: 0394 1 CRD$GT_UDA_1_EVDLC_Tst_Strt = $ASCIC ('DMF32A TXA0-TXA7'),
: 0395 1 CRD$GT_UDA_1_EVDLC_RunTime = $ASCIC ('0:30'),
: 0396 1 CRD$GT_UDA_1_EVDLC_Prep_Err = $ASCIC ('TXA: COMBO BOARD TESTING INCOMPLETE'),
: 0397 1
: 0398 1 !+
: 0399 1 ! This data for EVDLD is for the LCA (on the Combo board) test.
: 0400 1 !-
: 0401 1
: 0402 1 CRD$GT_UDA_1_EVDLD = $ASCIC ('EVDLD'),
: 0403 1 CRD$GT_UDA_1_EVDLD_Set_Flags = $ASCIC (''),
: 0404 1 CRD$GT_UDA_1_EVDLD_Set_Evnt = $ASCIC (''),
: 0405 1 CRD$GT_UDA_1_EVDLD_Dev_Name = $ASCIC ('LCA'),
: 0406 1 ! CRD$GT_UDA_1_EVDLD_Dev_Name = $ASCIC ('TTA6'),
: 0407 1 CRD$GT_UDA_1_EVDLD_Strt_Qual = $ASCIC (''),
: 0408 1 CRD$GT_UDA_1_EVDLD_Tst_Strt = $ASCIC ('DMF32P LCA'),
: 0409 1 CRD$GT_UDA_1_EVDLD_RunTime = $ASCIC ('0:15'),
: 0410 1 CRD$GT_UDA_1_EVDLD_Prep_Err = $ASCIC ('LCA: COMBO BOARD TESTING INCOMPLETE');
: 0411 1

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: 0412 1 xSBTTL 'Bindings for UDA based system, no RA60 Dr1, RA60 Dr0'
: 0413 1
: 0414 1 BIND                ![[04]]
: 0415 1
: 0416 1 !+
: 0417 1 ! This data for EVRLA is for the RA-disk on drive 0
: 0418 1 ! Leave the Test_Start_Text device name field blank as a default. The field will be filled
: 0419 1 ! in later if the device can be attached by the AutoSizer.
: 0420 1 !-
: 0421 1
: 0422 1 CRD$GT_UDA_2_EVRLA_0 = $ASCIC ('EVRLA'),
: 0423 1 CRD$GT_UDA_2_EVRLA_0_Set_Flags = $ASCIC ('QUICK'),
: 0424 1 CRD$GT_UDA_2_EVRLA_0_Set_Evnt = $ASCIC (''),
: 0425 1 CRD$GT_UDA_2_EVRLA_0_Dev_Name = $ASCIC ('DJA0'),
: 0426 1 ! CRD$GT_UDA_2_EVRLA_0_Dev_Name = $ASCIC ('TTA6'),
: 0427 1 CRD$GT_UDA_2_EVRLA_0_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
: 0428 1 CRD$GT_UDA_2_EVRLA_0_Tst_Strt = $ASCIC ('RA60 PART 2 DJA0'),
: 0429 1 CRD$GT_UDA_2_EVRLA_0_RunTime = $ASCIC ('1:00'),
: 0430 1 CRD$GT_UDA_2_EVRLA_0_Prep_Err = $ASCIC ('DJA0: DISK DRIVE TESTING INCOMPLETE'),
: 0431 1
: 0432 1 !+
: 0433 1 ! This data for EVDLB is for the XGA0 (on the Combo board) test.
: 0434 1 !-
: 0435 1
: 0436 1 CRD$GT_UDA_2_EVDLB = $ASCIC ('EVDLB'),
: 0437 1 CRD$GT_UDA_2_EVDLB_Set_Flags = $ASCIC (''),
: 0438 1 CRD$GT_UDA_2_EVDLB_Set_Evnt = $ASCIC (''),
: 0439 1 CRD$GT_UDA_2_EVDLB_Dev_Name = $ASCIC ('XGA0'),
: 0440 1 ! CRD$GT_UDA_2_EVDLB_Dev_Name = $ASCIC ('TTA6'),
: 0441 1 CRD$GT_UDA_2_EVDLB_Strt_Qual = $ASCIC (''),
: 0442 1 CRD$GT_UDA_2_EVDLB_Tst_Strt = $ASCIC ('DMF32S XGA0'),
: 0443 1 CRD$GT_UDA_2_EVDLB_RunTime = $ASCIC ('1:00'),
: 0444 1 CRD$GT_UDA_2_EVDLB_Prep_Err = $ASCIC ('XGA0: COMBO BOARD TESTING INCOMPLETE'),
: 0445 1
: 0446 1 !+
: 0447 1 ! This data for EVDLC is for the TXA (on the Combo board) test.
: 0448 1 !-
: 0449 1
: 0450 1 CRD$GT_UDA_2_EVDLC = $ASCIC ('EVDLC'),
: 0451 1 CRD$GT_UDA_2_EVDLC_Set_Flags = $ASCIC ('QUICK'),
: 0452 1 CRD$GT_UDA_2_EVDLC_Set_Evnt = $ASCIC (''),
: 0453 1 CRD$GT_UDA_2_EVDLC_Dev_Name = $ASCIC ('TXA'),
: 0454 1 ! CRD$GT_UDA_2_EVDLC_Dev_Name = $ASCIC ('TTA6'),
: 0455 1 CRD$GT_UDA_2_EVDLC_Strt_Qual = $ASCIC (''),
: 0456 1 CRD$GT_UDA_2_EVDLC_Tst_Strt = $ASCIC ('DMF32A TXA0-TXA7'),
: 0457 1 CRD$GT_UDA_2_EVDLC_RunTime = $ASCIC ('0:30'),
: 0458 1 CRD$GT_UDA_2_EVDLC_Prep_Err = $ASCIC ('TXA: COMBO BOARD TESTING INCOMPLETE'),
: 0459 1
: 0460 1 !+
: 0461 1 ! This data for EVDLD is for the LCA (on the Combo board) test.
: 0462 1 !-
: 0463 1
: 0464 1 CRD$GT_UDA_2_EVDLD = $ASCIC ('EVDLD'),
: 0465 1 CRD$GT_UDA_2_EVDLD_Set_Flags = $ASCIC (''),
: 0466 1 CRD$GT_UDA_2_EVDLD_Set_Evnt = $ASCIC (''),

```

ZZ-ENSAB-2.0 Bindings for UDA based system, no RA60 Dr1, RA6 19-Sep-1985 Fiche 3 Frame E16 Sequence 611
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Page 17
01-05 Bindings for UDA based system, no RA60 Dr1, RA6 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (13)

```
: 0467 1 CRD$GT_UDA_2_EVDLD_Dev_Name = $ASCIC ('LCA'),
: 0468 1 ! CRD$GT_UDA_2_EVDLD_Dev_Name = $ASCIC ('TTA6'),
: 0469 1 CRD$GT_UDA_2_EVDLD_Strt_Qual = $ASCIC (''),
: 0470 1 CRD$GT_UDA_2_EVDLD_Tst_Strt = $ASCIC ('DMF32P LCA'),
: 0471 1 CRD$GT_UDA_2_EVDLD_RunTime = $ASCIC ('0:15'),
: 0472 1 CRD$GT_UDA_2_EVDLD_Prep_Err = $ASCIC ('LCA: COMBO BOARD TESTING INCOMPLETE');
: 0473 1
: 0474 1
: 0475 1
```

```

: 0476 1 xSBTTL 'Bindings for UDA based system, RA60 Dr1, RA60 Dr0'
: 0477 1
: 0478 1 BIND                ![[04]
: 0479 1
: 0480 1 !+
: 0481 1 ! This data for EVRLA is for the RA-disk on Drive 0 test.
: 0482 1 ! Leave the Test_Start_Text device name field blank as a default. The field will be filled
: 0483 1 ! in later if the device can be attached by the AutoSizer.
: 0484 1 !-
: 0485 1
: 0486 1 CRD$GT_UDA_3_EVRLA_0 = $ASCIC ('EVRLA'),
: 0487 1 CRD$GT_UDA_3_EVRLA_0_Set_Flg = $ASCIC ('QUICK'),
: 0488 1 CRD$GT_UDA_3_EVRLA_0_Set_Evnt = $ASCIC (''),
: 0489 1 CRD$GT_UDA_3_EVRLA_0_Dev_Name = $ASCIC ('DJA0'),
: 0490 1 ! CRD$GT_UDA_3_EVRLA_0_Dev_Name = $ASCIC ('TTA6'),
: 0491 1 CRD$GT_UDA_3_EVRLA_0_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
: 0492 1 CRD$GT_UDA_3_EVRLA_0_Tst_Strt = $ASCIC ('DJA0'),
: 0493 1 CRD$GT_UDA_3_EVRLA_0_RunTime = $ASCIC ('1:00'),
: 0494 1 CRD$GT_UDA_3_EVRLA_0_Prep_Err = $ASCIC ('DJA0: DISK DRIVE TESTING INCOMPLETE'),
: 0495 1
: 0496 1 !+
: 0497 1 ! This data for EVRLA is for the Drive 1 test.
: 0498 1 !-
: 0499 1
: 0500 1 CRD$GT_UDA_3_EVRLA_1 = $ASCIC ('EVRLA'),
: 0501 1 CRD$GT_UDA_3_EVRLA_1_Set_Flg = $ASCIC ('QUICK'),
: 0502 1 CRD$GT_UDA_3_EVRLA_1_Set_Evnt = $ASCIC (''),
: 0503 1 CRD$GT_UDA_3_EVRLA_1_Dev_Name = $ASCIC ('DJA1'),
: 0504 1 ! CRD$GT_UDA_3_EVRLA_1_Dev_Name = $ASCIC ('TTA6'),
: 0505 1 CRD$GT_UDA_3_EVRLA_1_Strt_Qual = $ASCIC ('/SECTION:CRD12'),
: 0506 1 CRD$GT_UDA_3_EVRLA_1_Tst_Strt = $ASCIC ('RA60 PART 2 DJA1'),
: 0507 1 CRD$GT_UDA_3_EVRLA_1_RunTime = $ASCIC ('1:00'),
: 0508 1 CRD$GT_UDA_3_EVRLA_1_Prep_Err = $ASCIC ('DJA1: DISK DRIVE TESTING INCOMPLETE'),
: 0509 1
: 0510 1 !+
: 0511 1 ! This data for EVDLB is for the XGA0 (on the Combo board) test.
: 0512 1 !-
: 0513 1
: 0514 1 CRD$GT_UDA_3_EVDLB = $ASCIC ('EVDLB'),
: 0515 1 CRD$GT_UDA_3_EVDLB_Set_Flg = $ASCIC (''),
: 0516 1 CRD$GT_UDA_3_EVDLB_Set_Evnt = $ASCIC (''),
: 0517 1 CRD$GT_UDA_3_EVDLB_Dev_Name = $ASCIC ('XGA0'),
: 0518 1 ! CRD$GT_UDA_3_EVDLB_Dev_Name = $ASCIC ('TTA6'),
: 0519 1 CRD$GT_UDA_3_EVDLB_Strt_Qual = $ASCIC (''),
: 0520 1 CRD$GT_UDA_3_EVDLB_Tst_Strt = $ASCIC ('DMF32S XGA0'),
: 0521 1 CRD$GT_UDA_3_EVDLB_RunTime = $ASCIC ('1:00'),
: 0522 1 CRD$GT_UDA_3_EVDLB_Prep_Err = $ASCIC ('XGA0: COMBO BOARD TESTING INCOMPLETE'),
: 0523 1
: 0524 1 !+
: 0525 1 ! This data for EVDLC is for the TXA (on the Combo board) test.
: 0526 1 !-
: 0527 1
: 0528 1 CRD$GT_UDA_3_EVDLC = $ASCIC ('EVDLC'),
: 0529 1 CRD$GT_UDA_3_EVDLC_Set_Flg = $ASCIC ('QUICK'),
: 0530 1 CRD$GT_UDA_3_EVDLC_Set_Evnt = $ASCIC (''),

```

```

; 0531 1 CRD$GT_UDA_3_EVDLC_Dev_Name      = $ASCIC ('TXA'),
; 0532 1 ! CRD$GT_UDA_3_EVDLC_Dev_Name    = $ASCIC ('TTA6'),
; 0533 1 CRD$GT_UDA_3_EVDLC_Strt_Qual     = $ASCIC (''),
; 0534 1 CRD$GT_UDA_3_EVDLC_Tst_Strt     = $ASCIC ('DMF32A TXA0-TXA7'),
; 0535 1 CRD$GT_UDA_3_EVDLC_RunTime      = $ASCIC ('0:30'),
; 0536 1 CRD$GT_UDA_3_EVDLC_Prep_Err     = $ASCIC ('TXA: COMBO BOARD TESTING INCOMPLETE'),
; 0537 1
; 0538 1 !+
; 0539 1 ! This data for EVDLD is for the LCA (on the Combo board) test.
; 0540 1 !-
; 0541 1
; 0542 1 CRD$GT_UDA_3_EVDLD              = $ASCIC ('EVDLD'),
; 0543 1 CRD$GT_UDA_3_EVDLD_Set_Flags    = $ASCIC (''),
; 0544 1 CRD$GT_UDA_3_EVDLD_Set_Evnt     = $ASCIC (''),
; 0545 1 CRD$GT_UDA_3_EVDLD_Dev_Name     = $ASCIC ('LCA'),
; 0546 1 ! CRD$GT_UDA_3_EVDLD_Dev_Name    = $ASCIC ('TTA6'),
; 0547 1 CRD$GT_UDA_3_EVDLD_Strt_Qual    = $ASCIC (''),
; 0548 1 CRD$GT_UDA_3_EVDLD_Tst_Strt     = $ASCIC ('DMF32P LCA'),
; 0549 1 CRD$GT_UDA_3_EVDLD_RunTime      = $ASCIC ('0:15'),
; 0550 1 CRD$GT_UDA_3_EVDLD_Prep_Err     = $ASCIC ('LCA: COMBO BOARD TESTING INCOMPLETE');
; 0551 1

```

ZZ-ENSAB-2.0 Bindings for UDA based system, RA60 Dr1, RA60 D 19-Sep-1985 Fiche 3 Frame H16 Sequence 614
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Page 20
01-05 Bindings for UDA based system, RA60 Dr1, RA60 D 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (15)
; 0552 1

```
; 0553 1 xSBTTL 'Global Bindings'
; 0554 1
; 0555 1 GLOBAL BIND
; 0556 1 CRD$GT_DS_LOAD_Com = $ASCIC ('LOAD '),
; 0557 1 CRD$GT_DS_SET_FLAGS_Com = $ASCIC ('SET FLAGS '),
; 0558 1 CRD$GT_DS_SET_EVENT_Com = $ASCIC ('SET EVENT FLAGS '),
; 0559 1 CRD$GT_DS_SELECT_Com = $ASCIC ('SELECT '),
; 0560 1 CRD$GT_DS_START_Com = $ASCIC ('START ');
```

```

: 0561 1 xSBTTL 'CRD$Build_Support_Table'
: 0562 1
: 0563 1 GLOBAL ROUTINE CRD$Build_Support_Table : NOVALUE =
: 0564 1
: 0565 1 !**
: 0566 1 ! Functional Description:
: 0567 1 !
: 0568 1 ! Initialize all Hardware_Support tables.          [04]
: 0569 1 !
: 0570 1 ! Formal Input Parameters:
: 0571 1 !
: 0572 1 ! None
: 0573 1 !
: 0574 1 ! Formal Output Parameters:
: 0575 1 !
: 0576 1 ! None
: 0577 1 !
: 0578 1 ! Side Effects:
: 0579 1 !
: 0580 1 ! None
: 0581 1 !
: 0582 1 ! Completion Codes:
: 0583 1 !
: 0584 1 ! None
: 0585 1 ! -

```

```

; 0586 2 BEGIN      ! Routine CRD$Build_Support_Table
; 0587 2 !*
; 0588 2 ! As usual, define some macros to help build the table. Aren't macros wonderful? [04]
; 0589 2 !-
; 0590 2
; 0591 2 MACRO
; M 0592 2   Insert_Diagnostic_Name (Diag,System) =
; M 0593 2   (
; M 0594 2   !   EXTERNAL
; M 0595 2   !     xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
; M 0596 2
; M 0597 2     xNAME ('CRD$AL_',System,'_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Diagnostic_Name]
; M 0598 2     xNAME ('CRD$GT_', System, '_', Diag);
; M 0599 2   )
; 0600 2   x,
; 0601 2
; M 0602 2   Insert_Set_Flags (Diag,System) =
; M 0603 2   (
; M 0604 2   !   EXTERNAL
; M 0605 2   !     xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
; M 0606 2
; M 0607 2     xNAME ('CRD$AL_',System,'_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Set_Flags_Args] -
; M 0608 2     xNAME ('CRD$GT_', System, '_', Diag, '_Set_Flags');
; M 0609 2   )
; 0610 2   x,
; 0611 2
; M 0612 2   Insert_Set_Evnt (Diag,System) =
; M 0613 2   (
; M 0614 2   !   EXTERNAL
; M 0615 2   !     xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
; M 0616 2
; M 0617 2     xNAME ('CRD$AL_',System,'_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Set_Event_Args] =
; M 0618 2     xNAME ('CRD$GT_', System, '_', Diag, '_Set_Evnt');
; M 0619 2   )
; 0620 2   x,
; 0621 2
; M 0622 2   Insert_Strt_Qual (Diag,System) =
; M 0623 2   (
; M 0624 2   !   EXTERNAL
; M 0625 2   !     xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
; M 0626 2
; M 0627 2     xNAME ('CRD$AL_',System,'_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Start_Qualifiers] =
; M 0628 2     xNAME ('CRD$GT_', System, '_', Diag, '_Strt_Qual');
; M 0629 2   )
; 0630 2   x,

```



```

: M 0631 2 Insert_Dev_Name (Diag,System) =
: M 0632 2 (
: M 0633 2 ! EXTERNAL
: M 0634 2 ! xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
: M 0635 2
: M 0636 2 xNAME ('CRD$AL_', System, '_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Device_Name] -
: M 0637 2 xNAME ('CRD$GT_', System, '_', Diag, '_Dev_Name');
: M 0638 2 )
: M 0639 2 x,
: M 0640 2
: M 0641 2 Insert_RunTime (Diag,System) =
: M 0642 2 (
: M 0643 2 ! EXTERNAL
: M 0644 2 ! xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
: M 0645 2
: M 0646 2 xNAME ('CRD$AL_', System, '_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_RunTime] =
: M 0647 2 xNAME ('CRD$GT_', System, '_', Diag, '_RunTime');
: M 0648 2 )
: M 0649 2 x,
: M 0650 2
: M 0651 2 Insert_Prep_Err (Diag,System) =
: M 0652 2 (
: M 0653 2 ! EXTERNAL
: M 0654 2 ! xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
: M 0655 2
: M 0656 2 xNAME ('CRD$AL_', System, '_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Preparation_Error_Text] =
: M 0657 2 xNAME ('CRD$GT_', System, '_', Diag, '_Prep_Err');
: M 0658 2 )
: M 0659 2 x,
: M 0660 2
: M 0661 2 Insert_Tst_Strt (Diag,System) =
: M 0662 2 (
: M 0663 2 ! EXTERNAL
: M 0664 2 ! xNAME ('CRD$GT_', System, '_', Diag) : ADDRESSING_MODE (LONG_RELATIVE);
: M 0665 2
: M 0666 2 xNAME ('CRD$AL_', System, '_Hdwr_Sprt_Table') [xNAME ('CRD$K_', System, '_', Diag), CRD$K_Test_Start_Text] =
: M 0667 2 xNAME ('CRD$GT_', System, '_', Diag, '_Tst_Strt');
: M 0668 2 )
: M 0669 2 x;

```

```

: 0670 2 !+
: 0671 2 ! Initialize Hardware Support Table for IDC based system [04]
: 0672 2 !-
: 0673 2
: 0674 2 !
: 0675 2 ! Initialize the IDC Hardware Support Table to all zero pointers.
: 0676 2 !
: 0677 2
: 0678 2 INCR Diag FROM 0 TO (CRD$K_IDC_Last_Diagnostic - 1) DO
: 0679 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
: 0680 3 BEGIN
: 0681 3 CRD$AL_IDC_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
: 0682 2 END;
: 0683 2
: 0684 2 !
: 0685 2 ! Insert pointers to the ASCII strings into the IDC Hardware Support Table
: 0686 2 !
: 0687 2
: 0688 2 Insert_Diagnostic_Name (EVRAD_0, IDC);
: 0689 2 Insert_Set_Flags (EVRAD_0, IDC);
: 0690 2 Insert_Set_Evnt (EVRAD_0, IDC);
: 0691 2 Insert_Strt_Qual (EVRAD_0, IDC);
: 0692 2 Insert_Dev_Name (EVRAD_0, IDC);
: 0693 2 Insert_Tst_Strt (EVRAD_0, IDC);
: 0694 2 Insert_RunTime (EVRAD_0, IDC);
: 0695 2 Insert_Prep_Err (EVRAD_0, IDC);
: 0696 2
: 0697 2 Insert_Diagnostic_Name (EVRAD_1, IDC);
: 0698 2 Insert_Set_Flags (EVRAD_1, IDC);
: 0699 2 Insert_Set_Evnt (EVRAD_1, IDC);
: 0700 2 Insert_Strt_Qual (EVRAD_1, IDC);
: 0701 2 Insert_Dev_Name (EVRAD_1, IDC);
: 0702 2 Insert_Tst_Strt (EVRAD_1, IDC);
: 0703 2 Insert_RunTime (EVRAD_1, IDC);
: 0704 2 Insert_Prep_Err (EVRAD_1, IDC);
: 0705 2
: 0706 2 Insert_Diagnostic_Name (EVDLB, IDC);
: 0707 2 Insert_Set_Flags (EVDLB, IDC);
: 0708 2 Insert_Set_Evnt (EVDLB, IDC);
: 0709 2 Insert_Strt_Qual (EVDLB, IDC);
: 0710 2 Insert_Dev_Name (EVDLB, IDC);
: 0711 2 Insert_Tst_Strt (EVDLB, IDC);
: 0712 2 Insert_RunTime (EVDLB, IDC);
: 0713 2 Insert_Prep_Err (EVDLB, IDC);
: 0714 2
: 0715 2 Insert_Diagnostic_Name (EVDLC, IDC);
: 0716 2 Insert_Set_Flags (EVDLC, IDC);
: 0717 2 Insert_Set_Evnt (EVDLC, IDC);
: 0718 2 Insert_Strt_Qual (EVDLC, IDC);
: 0719 2 Insert_Dev_Name (EVDLC, IDC);
: 0720 2 Insert_Tst_Strt (EVDLC, IDC);
: 0721 2 Insert_RunTime (EVDLC, IDC);
: 0722 2 Insert_Prep_Err (EVDLC, IDC);
: 0723 2
: 0724 2 Insert_Diagnostic_Name (EVDLD, IDC);

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table C 1
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame C1 Sequence 620
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (20) Page 26

```
; 0725 2 Insert_Set_Flags (EVDLD, IDC);  
; 0726 2 Insert_Set_Evnt (EVDLD, IDC);  
; 0727 2 Insert_Strt_Qual (EVDLD, IDC);  
; 0728 2 Insert_Dev_Name (EVDLD, IDC);  
; 0729 2 Insert_Tst_Strt (EVDLD, IDC);  
; 0730 2 Insert_RunTime (EVDLD, IDC);  
; 0731 2 Insert_Prep_Err (EVDLD, IDC);  
; 0732 2  
; 0733 2
```

```

: 0734 2
: 0735 2 !+
: 0736 2 ! Initialize Hardware Support Table for LESI/AZTEC based system [04]
: 0737 2 !-
: 0738 2
: 0739 2 !
: 0740 2 ! Initialize the LESI Hardware Support Table to all zero pointers.
: 0741 2 !
: 0742 2
: 0743 2 INCR Diag FROM 0 TO (CRD$K_LESI_Last_Diagnostic - 1) DO
: 0744 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
: 0745 3 BEGIN
: 0746 3 CRD$AL_LESI_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
: 0747 2 END;
: 0748 2
: 0749 2 !
: 0750 2 ! Insert pointers to the ASCII strings into the LESI Hardware Support Table
: 0751 2 !
: 0752 2
: 0753 2 Insert_Diagnostic_Name (EVRMB_0, LESI);
: 0754 2 Insert_Set_Flags (EVRMB_0, LESI);
: 0755 2 Insert_Set_Evnt (EVRMB_0, LESI);
: 0756 2 Insert_Strt_Qual (EVRMB_0, LESI);
: 0757 2 Insert_Dev_Name (EVRMB_0, LESI);
: 0758 2 Insert_Tst_Strt (EVRMB_0, LESI);
: 0759 2 Insert_RunTime (EVRMB_0, LESI);
: 0760 2 Insert_Prep_Err (EVRMB_0, LESI);
: 0761 2
: 0762 2 Insert_Diagnostic_Name (EVRMB_1, LESI);
: 0763 2 Insert_Set_Flags (EVRMB_1, LESI);
: 0764 2 Insert_Set_Evnt (EVRMB_1, LESI);
: 0765 2 Insert_Strt_Qual (EVRMB_1, LESI);
: 0766 2 Insert_Dev_Name (EVRMB_1, LESI);
: 0767 2 Insert_Tst_Strt (EVRMB_1, LESI);
: 0768 2 Insert_RunTime (EVRMB_1, LESI);
: 0769 2 Insert_Prep_Err (EVRMB_1, LESI);
: 0770 2
: 0771 2
: 0772 2 ! Insert_Diagnostic_Name (ENWCA, LESI); [[05]
: 0773 2 ! Insert_Set_Flags (ENWCA, LESI); [[05]
: 0774 2 ! Insert_Set_Evnt (ENWCA, LESI); [[05]
: 0775 2 ! Insert_Strt_Qual (ENWCA, LESI); [[05] [[05]
: 0776 2 ! Insert_Dev_Name (ENWCA, LESI); [[05]
: 0777 2 ! Insert_Tst_Strt (ENWCA, LESI); [[05]
: 0778 2 ! Insert_RunTime (ENWCA, LESI); [[05]
: 0779 2 ! Insert_Prep_Err (ENWCA, LESI); [[05]
: 0780 2
: 0781 2
: 0782 2

```

```

; 0783 2
; 0784 2 !+
; 0785 2 ! Initialize Hardware Support Table for UDA based system with no RA60 for Drive 1 [04]
; 0786 2 ! and RA80 or 81 for Drive 0
; 0787 2 !-
; 0788 2
; 0789 2 !
; 0790 2 ! Initialize the UDA_0 Hardware Support Table to all zero pointers.
; 0791 2 !
; 0792 2
; 0793 2 INCR Diag FROM 0 TO (CRD$K_UDA_0_Last_Diagnostic - 1) DO
; 0794 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
; 0795 3 BEGIN
; 0796 3 CRD$AL_UDA_0_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
; 0797 2 END;
; 0798 2
; 0799 2 !
; 0800 2 ! Insert pointers to the ASCII strings into the UDA_0 Hardware Support Table
; 0801 2 !
; 0802 2
; 0803 2 Insert_Diagnostic_Name (EVRLA_0, UDA_0);
; 0804 2 Insert_Set_Flags (EVRLA_0, UDA_0);
; 0805 2 Insert_Set_Evnt (EVRLA_0, UDA_0);
; 0806 2 Insert_Strt_Qual (EVRLA_0, UDA_0);
; 0807 2 Insert_Dev_Name (EVRLA_0, UDA_0);
; 0808 2 Insert_Tst_Strt (EVRLA_0, UDA_0);
; 0809 2 Insert_RunTime (EVRLA_0, UDA_0);
; 0810 2 Insert_Prep_Err (EVRLA_0, UDA_0);
; 0811 2
; 0812 2 Insert_Diagnostic_Name (EVDLB, UDA_0);
; 0813 2 Insert_Set_Flags (EVDLB, UDA_0);
; 0814 2 Insert_Set_Evnt (EVDLB, UDA_0);
; 0815 2 Insert_Strt_Qual (EVDLB, UDA_0);
; 0816 2 Insert_Dev_Name (EVDLB, UDA_0);
; 0817 2 Insert_Tst_Strt (EVDLB, UDA_0);
; 0818 2 Insert_RunTime (EVDLB, UDA_0);
; 0819 2 Insert_Prep_Err (EVDLB, UDA_0);
; 0820 2
; 0821 2 Insert_Diagnostic_Name (EVDLC, UDA_0);
; 0822 2 Insert_Set_Flags (EVDLC, UDA_0);
; 0823 2 Insert_Set_Evnt (EVDLC, UDA_0);
; 0824 2 Insert_Strt_Qual (EVDLC, UDA_0);
; 0825 2 Insert_Dev_Name (EVDLC, UDA_0);
; 0826 2 Insert_Tst_Strt (EVDLC, UDA_0);
; 0827 2 Insert_RunTime (EVDLC, UDA_0);
; 0828 2 Insert_Prep_Err (EVDLC, UDA_0);
; 0829 2
; 0830 2 Insert_Diagnostic_Name (EVDLD, UDA_0);
; 0831 2 Insert_Set_Flags (EVDLD, UDA_0);
; 0832 2 Insert_Set_Evnt (EVDLD, UDA_0);
; 0833 2 Insert_Strt_Qual (EVDLD, UDA_0);
; 0834 2 Insert_Dev_Name (EVDLD, UDA_0);
; 0835 2 Insert_Tst_Strt (EVDLD, UDA_0);
; 0836 2 Insert_RunTime (EVDLD, UDA_0);
; 0837 2 Insert_Prep_Err (EVDLD, UDA_0);

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table F 1
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame F1 Sequence 623
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (22) Page 29

: 0838 2
: 0839 2

```

: 0840 2
: 0841 2
: 0842 2
: 0843 2 !+
: 0844 2 ! Initialize Hardware Support Table for UDA based system with RA60 for Drive 1 [04]
: 0845 2 ! and RA80 or 81 for Drive 0
: 0846 2 !-
: 0847 2
: 0848 2 !
: 0849 2 ! Initialize the UDA_1 Hardware Support Table to all zero pointers.
: 0850 2 !
: 0851 2
: 0852 2 INCR Diag FROM 0 TO (CRD$K_UDA_1_Last_Diagnostic - 1) DO
: 0853 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
: 0854 3 BEGIN
: 0855 3 CRD$AL_UDA_1_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
: 0856 2 END;
: 0857 2
: 0858 2 !
: 0859 2 ! Insert pointers to the ASCII strings into the UDA_1 Hardware Support Table
: 0860 2 !
: 0861 2
: 0862 2 Insert_Diagnostic_Name (EVRLA_0, UDA_1);
: 0863 2 Insert_Set_Flags (EVRLA_0, UDA_1);
: 0864 2 Insert_Set_Evnt (EVRLA_0, UDA_1);
: 0865 2 Insert_Strt_Qual (EVRLA_0, UDA_1);
: 0866 2 Insert_Dev_Name (EVRLA_0, UDA_1);
: 0867 2 Insert_Tst_Strt (EVRLA_0, UDA_1);
: 0868 2 Insert_RunTime (EVRLA_0, UDA_1);
: 0869 2 Insert_Prep_Err (EVRLA_0, UDA_1);
: 0870 2
: 0871 2 Insert_Diagnostic_Name (EVRLA_1, UDA_1);
: 0872 2 Insert_Set_Flags (EVRLA_1, UDA_1);
: 0873 2 Insert_Set_Evnt (EVRLA_1, UDA_1);
: 0874 2 Insert_Strt_Qual (EVRLA_1, UDA_1);
: 0875 2 Insert_Dev_Name (EVRLA_1, UDA_1);
: 0876 2 Insert_Tst_Strt (EVRLA_1, UDA_1);
: 0877 2 Insert_RunTime (EVRLA_1, UDA_1);
: 0878 2 Insert_Prep_Err (EVRLA_1, UDA_1);
: 0879 2
: 0880 2 Insert_Diagnostic_Name (EVDLB, UDA_1);
: 0881 2 Insert_Set_Flags (EVDLB, UDA_1);
: 0882 2 Insert_Set_Evnt (EVDLB, UDA_1);
: 0883 2 Insert_Strt_Qual (EVDLB, UDA_1);
: 0884 2 Insert_Dev_Name (EVDLB, UDA_1);
: 0885 2 Insert_Tst_Strt (EVDLB, UDA_1);
: 0886 2 Insert_RunTime (EVDLB, UDA_1);
: 0887 2 Insert_Prep_Err (EVDLB, UDA_1);
: 0888 2
: 0889 2 Insert_Diagnostic_Name (EVDLC, UDA_1);
: 0890 2 Insert_Set_Flags (EVDLC, UDA_1);
: 0891 2 Insert_Set_Evnt (EVDLC, UDA_1);
: 0892 2 Insert_Strt_Qual (EVDLC, UDA_1);
: 0893 2 Insert_Dev_Name (EVDLC, UDA_1);
: 0894 2 Insert_Tst_Strt (EVDLC, UDA_1);

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table H 1
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame H1 Sequence 625
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (23) Page 31

```
; 0895 2 Insert_RunTime (EVDLC, UDA_1);  
; 0896 2 Insert_Prep_Err (EVDLC, UDA_1);  
; 0897 2  
; 0898 2 Insert_Diagnostic_Name (EVDLD, UDA_1);  
; 0899 2 Insert_Set_Flags (EVDLD, UDA_1);  
; 0900 2 Insert_Set_Evnt (EVDLD, UDA_1);  
; 0901 2 Insert_Strt_Qual (EVDLD, UDA_1);  
; 0902 2 Insert_Dev_Name (EVDLD, UDA_1);  
; 0903 2 Insert_Tst_Strt (EVDLD, UDA_1);  
; 0904 2 Insert_RunTime (EVDLD, UDA_1);  
; 0905 2 Insert_Prep_Err (EVDLD, UDA_1);  
; 0906 2
```



```

: 0907 2
: 0908 2
: 0909 2 !+
: 0910 2 ! Initialize Hardware Support Table for UDA based system with no RA60 for Drive 1 [04]
: 0911 2 ! and RA60 for Drive 0
: 0912 2 !-
: 0913 2
: 0914 2 !
: 0915 2 ! Initialize the UDA_2 Hardware Support Table to all zero pointers.
: 0916 2 !
: 0917 2
: 0918 2 INCR Diag FROM 0 TO (CRD$K_UDA_2_Last_Diagnostic - 1) DO
: 0919 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
: 0920 3 BEGIN
: 0921 3 CRD$AL_UDA_2_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
: 0922 2 END;
: 0923 2
: 0924 2 !
: 0925 2 ! Insert pointers to the ASCII strings into the UDA_2 Hardware Support Table
: 0926 2 !
: 0927 2
: 0928 2 Insert_Diagnostic_Name (EVRLA_0, UDA_2);
: 0929 2 Insert_Set_Flags (EVRLA_0, UDA_2);
: 0930 2 Insert_Set_Evnt (EVRLA_0, UDA_2);
: 0931 2 Insert_Strt_Qual (EVRLA_0, UDA_2);
: 0932 2 Insert_Dev_Name (EVRLA_0, UDA_2);
: 0933 2 Insert_Tst_Strt (EVRLA_0, UDA_2);
: 0934 2 Insert_RunTime (EVRLA_0, UDA_2);
: 0935 2 Insert_Prep_Err (EVRLA_0, UDA_2);
: 0936 2
: 0937 2 Insert_Diagnostic_Name (EVDLB, UDA_2);
: 0938 2 Insert_Set_Flags (EVDLB, UDA_2);
: 0939 2 Insert_Set_Evnt (EVDLB, UDA_2);
: 0940 2 Insert_Strt_Qual (EVDLB, UDA_2);
: 0941 2 Insert_Dev_Name (EVDLB, UDA_2);
: 0942 2 Insert_Tst_Strt (EVDLB, UDA_2);
: 0943 2 Insert_RunTime (EVDLB, UDA_2);
: 0944 2 Insert_Prep_Err (EVDLB, UDA_2);
: 0945 2
: 0946 2 Insert_Diagnostic_Name (EVDLC, UDA_2);
: 0947 2 Insert_Set_Flags (EVDLC, UDA_2);
: 0948 2 Insert_Set_Evnt (EVDLC, UDA_2);
: 0949 2 Insert_Strt_Qual (EVDLC, UDA_2);
: 0950 2 Insert_Dev_Name (EVDLC, UDA_2);
: 0951 2 Insert_Tst_Strt (EVDLC, UDA_2);
: 0952 2 Insert_RunTime (EVDLC, UDA_2);
: 0953 2 Insert_Prep_Err (EVDLC, UDA_2);
: 0954 2
: 0955 2 Insert_Diagnostic_Name (EVDLD, UDA_2);
: 0956 2 Insert_Set_Flags (EVDLD, UDA_2);
: 0957 2 Insert_Set_Evnt (EVDLD, UDA_2);
: 0958 2 Insert_Strt_Qual (EVDLD, UDA_2);
: 0959 2 Insert_Dev_Name (EVDLD, UDA_2);
: 0960 2 Insert_Tst_Strt (EVDLD, UDA_2);
: 0961 2 Insert_RunTime (EVDLD, UDA_2);

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table J 1
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame J1 Sequence 627
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (24) Page 33

; 0962 2 Insert_Prep_Err (EVDLD, UDA_2);
; 0963 2
; 0964 2

```

: 0965 2
: 0966 2
: 0967 2
: 0968 2 !+
: 0969 2 ! Initialize Hardware Support Table for UDA based system with RA60 for Drive 1 [04]
: 0970 2 ! and RA60 for Drive 0
: 0971 2 !-
: 0972 2
: 0973 2 !
: 0974 2 ! Initialize the UDA_3 Hardware Support Table to all zero pointers.
: 0975 2 !
: 0976 2
: 0977 2 INCR Diag FROM 0 TO (CRD$K_UDA_3_Last_Diagnostic - 1) DO
: 0978 2 INCR Entry FROM 0 TO (CRD$K_Last_Entry - 1) DO
: 0979 3 BEGIN
: 0980 3 CRD$AL_UDA_3_Hdwr_Sprt_Table [.Diag, .Entry] = 0;
: 0981 2 END;
: 0982 2
: 0983 2 !
: 0984 2 ! Insert pointers to the ASCII strings into the UDA_3 Hardware Support Table
: 0985 2 !
: 0986 2
: 0987 2 Insert_Diagnostic_Name (EVRLA_0, UDA_3);
: 0988 2 Insert_Set_Flags (EVRLA_0, UDA_3);
: 0989 2 Insert_Set_Evnt (EVRLA_0, UDA_3);
: 0990 2 Insert_Strt_Qual (EVRLA_0, UDA_3);
: 0991 2 Insert_Dev_Name (EVRLA_0, UDA_3);
: 0992 2 Insert_Tst_Strt (EVRLA_0, UDA_3);
: 0993 2 Insert_RunTime (EVRLA_0, UDA_3);
: 0994 2 Insert_Prep_Err (EVRLA_0, UDA_3);
: 0995 2
: 0996 2 Insert_Diagnostic_Name (EVRLA_1, UDA_3);
: 0997 2 Insert_Set_Flags (EVRLA_1, UDA_3);
: 0998 2 Insert_Set_Evnt (EVRLA_1, UDA_3);
: 0999 2 Insert_Strt_Qual (EVRLA_1, UDA_3);
: 1000 2 Insert_Dev_Name (EVRLA_1, UDA_3);
: 1001 2 Insert_Tst_Strt (EVRLA_1, UDA_3);
: 1002 2 Insert_RunTime (EVRLA_1, UDA_3);
: 1003 2 Insert_Prep_Err (EVRLA_1, UDA_3);
: 1004 2
: 1005 2 Insert_Diagnostic_Name (EVDLB, UDA_3);
: 1006 2 Insert_Set_Flags (EVDLB, UDA_3);
: 1007 2 Insert_Set_Evnt (EVDLB, UDA_3);
: 1008 2 Insert_Strt_Qual (EVDLB, UDA_3);
: 1009 2 Insert_Dev_Name (EVDLB, UDA_3);
: 1010 2 Insert_Tst_Strt (EVDLB, UDA_3);
: 1011 2 Insert_RunTime (EVDLB, UDA_3);
: 1012 2 Insert_Prep_Err (EVDLB, UDA_3);
: 1013 2
: 1014 2 Insert_Diagnostic_Name (EVDLC, UDA_3);
: 1015 2 Insert_Set_Flags (EVDLC, UDA_3);
: 1016 2 Insert_Set_Evnt (EVDLC, UDA_3);
: 1017 2 Insert_Strt_Qual (EVDLC, UDA_3);
: 1018 2 Insert_Dev_Name (EVDLC, UDA_3);
: 1019 2 Insert_Tst_Strt (EVDLC, UDA_3);

```

```

; 1020 2 Insert_RunTime (EVDLC, UDA_3);
; 1021 2 Insert_Prep_Err (EVDLC, UDA_3);
; 1022 2
; 1023 2 Insert_Diagnostic_Name (EVDLD, UDA_3);
; 1024 2 Insert_Set_Flags (EVDLD, UDA_3);
; 1025 2 Insert_Set_Evnt (EVDLD, UDA_3);
; 1026 2 Insert_Strt_Qual (EVDLD, UDA_3);
; 1027 2 Insert_Dev_Name (EVDLD, UDA_3);
; 1028 2 Insert_Tst_Strt (EVDLD, UDA_3);
; 1029 2 Insert_RunTime (EVDLD, UDA_3);
; 1030 2 Insert_Prep_Err (EVDLD, UDA_3);
; 1031 2
; 1032 2 RETURN;
; 1033 1 END;

```

```

.TITLE CRDHDWSUP *** CRDHDWSUP Module
.IDENT \01-05\

```

```

.PSECT WORK,NOEXE,2

```

```

00 00000 CRD$GB_BASE_SYSTEM::
  .BYTE 0 ;
  00001 .BLKB 3
00000000 00004 CRD$GA_HDWR_SPRT_TABLE::
  .LONG 0 ;
  00008 CRD$AL_IDC_HDWR_SPRT_TABLE::
  .BLKB 160
  000A8 CRD$AL_LESI_HDWR_SPRT_TABLE::
  .BLKB 96
  00108 CRD$AL_UDA_0_HDWR_SPRT_TABLE::
  .BLKB 128
  00188 CRD$AL_UDA_1_HDWR_SPRT_TABLE::
  .BLKB 160
  00228 CRD$AL_UDA_2_HDWR_SPRT_TABLE::
  .BLKB 128
  002A8 CRD$AL_UDA_3_HDWR_SPRT_TABLE::
  .BLKB 160

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

50 55 53 57 44 48 44 52 43 09 00000 P.AAA: .ASCII <9>\CRDHDWSUP\ ;
  44 41 52 56 45 05 0000A P.AAB: .ASCII <5>\EVRAD\ ;
  4B 43 49 55 51 05 00010 P.AAC: .ASCII <5>\QUICK\ ;
  00 00016 P.AAD: .ASCII <0> ;
  30 41 51 44 04 00017 P.AAE: .ASCII <4>\DQA0\ ;
  00 0001C P.AAF: .ASCII <0> ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 12 0001D P.AAG: .ASCII <18>\ DQA0\ ;
  30 41 51 44 0002C ;
  30 33 3A 30 04 00030 P.AAH: .ASCII <4>\0:30\ ;
49 52 44 20 4B 53 49 44 20 3A 30 41 51 44 23 00035 P.AAI: .ASCII \#DQA0: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 00044 ;
  45 54 45 4C 50 4D 00053 ;
  44 41 52 56 45 05 00059 P.AAJ: .ASCII <5>\EVRAD\ ;
  4B 43 49 55 51 05 0005F P.AAK: .ASCII <5>\QUICK\ ;

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table

CRDHDWSUP *** CRDHDWSUP Module

19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746

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01-05 CRD\$Build_Support_Table

3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (25)

```
00 00065 P.AAL: .ASCII <0> ;
31 41 51 44 04 00066 P.AAM: .ASCII <4>\DQA1\ ;
00 0006B P.AAN: .ASCII <0> ;
20 20 20 32 20 54 52 41 50 20 32 30 4C 52 12 0006C P.AAO: .ASCII <18>\RL02 PART 2 DQA1\ ;
31 41 51 44 0007B ;
30 33 3A 30 04 0007F P.AAP: .ASCII <4>\0:30\ ;
49 52 44 20 4B 53 49 44 20 3A 31 41 51 44 23 00084 P.AAQ: .ASCII \#DQA1: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 00093 ;
45 54 45 4C 50 4D 000A2 ;
42 4C 44 56 45 05 000A8 P.AAR: .ASCII <5>\EVDLB\ ;
00 000AE P.AAS: .ASCII <0> ;
00 000AF P.AAT: .ASCII <0> ;
30 41 47 58 04 000B0 P.AAU: .ASCII <4>\XGA0\ ;
00 000B5 P.AAV: .ASCII <0> ;
20 20 20 20 20 20 20 20 53 32 33 46 4D 44 12 000B6 P.AAW: .ASCII <18>\DMF32S XGA0\ ;
30 41 47 58 000C5 ;
30 30 3A 31 04 000C9 P.AAX: .ASCII <4>\1:00\ ;
4F 42 20 4F 42 4D 4F 43 20 3A 30 41 47 58 24 000CE P.AAY: .ASCII \$XGA0: COMBO BOARD TESTING INCOMPLETE\ ;
43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 41 000DD ;
45 54 45 4C 50 4D 4F 000EC ;
43 4C 44 56 45 05 000F3 P.AAZ: .ASCII <5>\EVDLC\ ;
4B 43 49 55 51 05 000F9 P.ABA: .ASCII <5>\QUICK\ ;
00 000FF P.ABB: .ASCII <0> ;
41 58 54 03 00100 P.ABC: .ASCII <3>\TXA\ ;
00 00104 P.ABD: .ASCII <0> ;
2D 30 41 58 54 20 20 20 41 32 33 46 4D 44 12 00105 P.ABE: .ASCII <18>\DMF32A TXA0-TXA7\ ;
37 41 58 54 00114 ;
30 33 3A 30 04 00118 P.ABF: .ASCII <4>\0:30\ ;
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 58 54 23 0011D P.ABG: .ASCII \#TXA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 0012C ;
45 54 45 4C 50 4D 0013B ;
44 4C 44 56 45 05 00141 P.ABH: .ASCII <5>\EVDLD\ ;
00 00147 P.ABI: .ASCII <0> ;
00 00148 P.ABJ: .ASCII <0> ;
41 43 4C 03 00149 P.ABK: .ASCII <3>\LCA\ ;
00 0014D P.ABL: .ASCII <0> ;
20 20 20 20 20 20 20 20 50 32 33 46 4D 44 12 0014E P.ABM: .ASCII <18>\DMF32P LCA\ ;
41 43 4C 20 0015D ;
35 31 3A 30 04 00161 P.ABN: .ASCII <4>\0:15\ ;
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 43 4C 23 00166 P.ABO: .ASCII \#LCA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 00175 ;
45 54 45 4C 50 4D 00184 ;
42 4D 52 56 45 05 0018A P.ABP: .ASCII <5>\EVRMB\ ;
4B 43 49 55 51 05 00190 P.ABQ: .ASCII <5>\QUICK\ ;
00 00196 P.ABR: .ASCII <0> ;
30 41 41 44 04 00197 P.ABS: .ASCII <4>\DAA0\ ;
44 52 43 3A 4E 4F 49 54 43 45 53 2F 0C 0019C P.ABT: .ASCII <12>\SECTION:CRD\ ;
20 20 20 32 20 54 52 41 50 20 35 32 43 52 12 001A9 P.ABU: .ASCII <18>\RC25 PART 2 DAA0\ ;
30 41 41 44 001B8 ;
30 30 3A 31 04 001BC P.ABV: .ASCII <4>\1:00\ ;
49 52 44 20 4B 53 49 44 20 3A 30 41 41 44 23 001C1 P.ABW: .ASCII \#DAA0: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 001D0 ;
45 54 45 4C 50 4D 001DF ;
42 4D 52 56 45 05 001E5 P.ABX: .ASCII <5>\EVRMB\ ;
4B 43 49 55 51 05 001EB P.ABY: .ASCII <5>\QUICK\ ;
```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table N 1
19-Sep-1985 Fiche 4 Frame N1 Sequence 631
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Page 37
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (25)

```
00 001F1 P.ABZ: .ASCII <0>
44 31 41 41 44 04 001F2 P.ACA: .ASCII <4>\DAA1\
52 43 3A 4E 4F 49 54 43 45 53 2F 0C 001F7 P.ACB: .ASCII <12>\SECTION:CRD\
20 20 20 20 20 20 20 20 20 35 32 46 43 52 12 00204 P.ACC: .ASCII <18>\RCF25 DAA1\ ;
31 41 41 44 00213
30 30 3A 31 04 00217 P.ACD: .ASCII <4>\1:00\
49 52 44 20 4B 53 49 44 20 3A 31 41 41 44 23 0021C P.ACE: .ASCII \#DAA1: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 0022B
45 54 45 4C 50 4D 0023A
41 4C 52 56 45 05 00240 P.ACF: .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00246 P.ACG: .ASCII <5>\QUICK\ ;
00 0024C P.ACH: .ASCII <0>
30 41 55 44 04 0024D P.ACI: .ASCII <4>\DUA0\
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 00252 P.ACJ: .ASCII <14>\SECTION:CRD12\ ;
20 20 20 32 20 54 52 41 50 20 20 20 20 20 12 00261 P.ACK: .ASCII <18>\ PART 2 DUA0\ ;
30 41 55 44 00270
35 34 3A 32 04 00274 P.ACL: .ASCII <4>\2:45\
49 52 44 20 4B 53 49 44 20 3A 30 41 55 44 23 00279 P.ACM: .ASCII \#DUA0: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 00288
45 54 45 4C 50 4D 00297
42 4C 44 56 45 05 0029D P.ACN: .ASCII <5>\EVDLB\ ;
00 002A3 P.ACO: .ASCII <0>
00 002A4 P.ACP: .ASCII <0>
30 41 47 58 04 002A5 P.ACQ: .ASCII <4>\XGA0\ ;
00 002AA P.ACR: .ASCII <0>
20 20 20 20 20 20 20 20 53 32 33 46 4D 44 12 002AB P.ACS: .ASCII <18>\DMF32S XGA0\ ;
30 41 47 58 002BA
30 30 3A 31 04 002BE P.ACT: .ASCII <4>\1:00\
4F 42 20 4F 42 4D 4F 43 20 3A 30 41 47 58 24 002C3 P.ACU: .ASCII \#XGA0: COMBO BOARD TESTING INCOMPLETE\ ;
43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 41 002D2
45 54 45 4C 50 4D 4F 002E1
43 4C 44 56 45 05 002E8 P.ACV: .ASCII <5>\EVDLC\ ;
4B 43 49 55 51 05 002EE P.ACW: .ASCII <5>\QUICK\ ;
00 002F4 P.ACX: .ASCII <0>
41 58 54 03 002F5 P.ACY: .ASCII <3>\TXA\ ;
00 002F9 P.ACZ: .ASCII <0>
2D 30 41 58 54 20 20 20 41 32 33 46 4D 44 12 002FA P.ADA: .ASCII <18>\DMF32A TXA0-TXA7\ ;
37 41 58 54 00309
30 33 3A 30 04 0030D P.ADB: .ASCII <4>\0:30\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 58 54 23 00312 P.ADC: .ASCII \#TXA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 00321
45 54 45 4C 50 4D 00330
44 4C 44 56 45 05 00336 P.ADD: .ASCII <5>\EVDLD\ ;
00 0033C P.ADE: .ASCII <0>
00 0033D P.ADF: .ASCII <0>
41 43 4C 03 0033E P.ADG: .ASCII <3>\LCA\ ;
00 00342 P.ADH: .ASCII <0>
20 20 20 20 20 20 20 20 50 32 33 46 4D 44 12 00343 P.ADI: .ASCII <18>\DMF32P LCA\ ;
41 43 4C 20 00352
35 31 3A 30 04 00356 P.ADJ: .ASCII <4>\0:15\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 43 4C 23 0035B P.ADK: .ASCII \#LCA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 0036A
45 54 45 4C 50 4D 00379
41 4C 52 56 45 05 0037F P.ADL: .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00385 P.ADM: .ASCII <5>\QUICK\ ;
```

```
00 0038B P.ADN: .ASCII <0> ;
30 41 55 44 04 0038C P.ADO: .ASCII <4>\DUA0\ ;
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 00391 P.ADP: .ASCII <14>\SECTION:CRD12\ ;
20 20 20 20 20 20 20 20 20 20 20 20 20 20 12 003A0 P.ADQ: .ASCII <18>\ DUA0\ ;
30 41 55 44 003AF ;
35 34 3A 32 04 003B3 P.ADR: .ASCII <4>\2:45\ ;
49 52 44 20 4B 53 49 44 20 3A 30 41 55 44 23 003B8 P.ADS: .ASCII \#DUA0: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 003C7 ;
45 54 45 4C 50 4D 003D6 ;
41 4C 52 56 45 05 003DC P.ADT: .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 003E2 P.ADU: .ASCII <5>\QUICK\ ;
00 003E8 P.ADV: .ASCII <0> ;
31 41 4A 44 04 003E9 P.ADW: .ASCII <4>\DJA1\ ;
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 003EE P.ADX: .ASCII <14>\SECTION:CRD12\ ;
20 20 20 32 20 54 52 41 50 20 30 36 41 52 12 003FD P.ADY: .ASCII <18>\RA60 PART 2 DJA1\ ;
31 41 4A 44 0040C ;
30 30 3A 31 04 00410 P.ADZ: .ASCII <4>\1:00\ ;
49 52 44 20 4B 53 49 44 20 3A 31 41 4A 44 23 00415 P.AEA: .ASCII \#DJA1: DISK DRIVE TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 00424 ;
45 54 45 4C 50 4D 00433 ;
42 4C 44 56 45 05 00439 P.AEB: .ASCII <5>\EVDLB\ ;
00 0043F P.AEC: .ASCII <0> ;
00 00440 P.AED: .ASCII <0> ;
30 41 47 58 04 00441 P.AEE: .ASCII <4>\XGA0\ ;
00 00446 P.AEF: .ASCII <0> ;
20 20 20 20 20 20 20 20 53 32 33 46 4D 44 12 00447 P.AEG: .ASCII <18>\DMF32S XGA0\ ;
30 41 47 58 00456 ;
30 30 3A 31 04 0045A P.AEH: .ASCII <4>\1:00\ ;
4F 42 20 4F 42 4D 4F 43 20 3A 30 41 47 58 24 0045F P.AEI: .ASCII \XGA0: COMBO BOARD TESTING INCOMPLETE\ ;
43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 41 0046E ;
45 54 45 4C 50 4D 4F 0047D ;
43 4C 44 56 45 05 00484 P.AEJ: .ASCII <5>\EVDLC\ ;
4B 43 49 55 51 05 0048A P.AEK: .ASCII <5>\QUICK\ ;
00 00490 P.AEL: .ASCII <0> ;
41 58 54 03 00491 P.AEM: .ASCII <3>\TXA\ ;
00 00495 P.AEN: .ASCII <0> ;
2D 30 41 58 54 20 20 20 41 32 33 46 4D 44 12 00496 P.AEO: .ASCII <18>\DMF32A TXA0-TXA7\ ;
37 41 58 54 004A5 ;
30 33 3A 30 04 004A9 P.AEP: .ASCII <4>\0:30\ ;
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 58 54 23 004AE P.AEQ: .ASCII \#TXA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 004BD ;
45 54 45 4C 50 4D 004CC ;
44 4C 44 56 45 05 004D2 P.AER: .ASCII <5>\EVDLD\ ;
00 004D8 P.AES: .ASCII <0> ;
00 004D9 P.AET: .ASCII <0> ;
41 43 4C 03 004DA P.AEU: .ASCII <3>\LCA\ ;
00 004DE P.AEV: .ASCII <0> ;
20 20 20 20 20 20 20 20 50 32 33 46 4D 44 12 004DF P.AEW: .ASCII <18>\DMF32P LCA\ ;
41 43 4C 20 004EE ;
35 31 3A 30 04 004F2 P.AEX: .ASCII <4>\0:15\ ;
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 43 4C 23 004F7 P.AEY: .ASCII \#LCA: COMBO BOARD TESTING INCOMPLETE\ ;
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 00506 ;
45 54 45 4C 50 4D 00515 ;
41 4C 52 56 45 05 0051B P.AEZ: .ASCII <5>\EVRLA\ ;
4B 43 49 55 51 05 00521 P.AFA: .ASCII <5>\QUICK\ ;
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00 00527 P.AFB: .ASCII <0>
30 41 4A 44 04 00528 P.AFC: .ASCII <4>\DJA0\
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 0052D P.AFD: .ASCII <14>\SECTION:CRD12\
20 20 20 32 20 54 52 41 50 20 30 36 41 52 12 0053C P.AFE: .ASCII <18>\RA60 PART 2 DJA0\
30 41 4A 44 0054B
30 30 3A 31 04 0054F P.AFF: .ASCII <4>\1:00\
49 52 44 20 4B 53 49 44 20 3A 30 41 4A 44 23 00554 P.AFG: .ASCII \#DJA0: DISK DRIVE TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 00563
45 54 45 4C 50 4D 00572
42 4C 44 56 45 05 00578 P.AFH: .ASCII <5>\EVDLB\
00 0057E P.AFI: .ASCII <0>
00 0057F P.AFJ: .ASCII <0>
30 41 47 58 04 00580 P.AFK: .ASCII <4>\XGA0\
00 00585 P.AFL: .ASCII <0>
20 20 20 20 20 20 20 20 53 32 33 46 4D 44 12 00586 P.AFM: .ASCII <18>\DMF32S XGA0\
30 41 47 58 00595
30 30 3A 31 04 00599 P.AFN: .ASCII <4>\1:00\
4F 42 20 4F 42 4D 4F 43 20 3A 30 41 47 58 24 0059E P.AFO: .ASCII \$XGA0: COMBO BOARD TESTING INCOMPLETE\
43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 41 005AD
45 54 45 4C 50 4D 4F 005BC
43 4C 44 56 45 05 005C3 P.AFP: .ASCII <5>\EVDLC\
4B 43 49 55 51 05 005C9 P.AFQ: .ASCII <5>\QUICK\
00 005CF P.AFR: .ASCII <0>
41 58 54 03 005D0 P.AFS: .ASCII <3>\TXA\
00 005D4 P.AFT: .ASCII <0>
2D 30 41 58 54 20 20 20 41 32 33 46 4D 44 12 005D5 P.AFU: .ASCII <18>\DMF32A TXA0-TXA7\
37 41 58 54 005E4
30 33 3A 30 04 005E8 P.AFV: .ASCII <4>\0:30\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 58 54 23 005ED P.AFW: .ASCII \#TXA: COMBO BOARD TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 005FC
45 54 45 4C 50 4D 0060B
44 4C 44 56 45 05 00611 P.AFX: .ASCII <5>\EVDLD\
00 00617 P.AFY: .ASCII <0>
00 00618 P.AFZ: .ASCII <0>
41 43 4C 03 00619 P.AGA: .ASCII <3>\LCA\
00 0061D P.AGB: .ASCII <0>
20 20 20 20 20 20 20 20 50 32 33 46 4D 44 12 0061E P.AGC: .ASCII <18>\DMF32P LCA\
41 43 4C 20 0062D
35 31 3A 30 04 00631 P.AGD: .ASCII <4>\0:15\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 43 4C 23 00636 P.AGE: .ASCII \#LCA: COMBO BOARD TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 00645
45 54 45 4C 50 4D 00654
41 4C 52 56 45 05 0065A P.AGF: .ASCII <5>\EVRLA\
4B 43 49 55 51 05 00660 P.AGG: .ASCII <5>\QUICK\
00 00666 P.AGH: .ASCII <0>
30 41 4A 44 04 00667 P.AGI: .ASCII <4>\DJA0\
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 0066C P.AGJ: .ASCII <14>\SECTION:CRD12\
20 20 20 20 20 20 20 20 20 20 20 20 20 20 12 0067B P.AGK: .ASCII <18>\ DJA0\
30 41 4A 44 0068A
30 30 3A 31 04 0068E P.AGL: .ASCII <4>\1:00\
49 52 44 20 4B 53 49 44 20 3A 30 41 4A 44 23 00693 P.AGM: .ASCII \#DJA0: DISK DRIVE TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 006A2
45 54 45 4C 50 4D 006B1
41 4C 52 56 45 05 006B7 P.AGN: .ASCII <5>\EVRLA\
4B 43 49 55 51 05 006BD P.AGO: .ASCII <5>\QUICK\

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00 006C3 P.AGP: .ASCII <0>
31 41 4A 44 04 006C4 P.AGQ: .ASCII <4>\DJA1\
32 31 44 52 43 3A 4E 4F 49 54 43 45 53 2F 0E 006C9 P.AGR: .ASCII <14>\SECTION:CRD12\
20 20 20 32 20 54 52 41 50 20 30 36 41 52 12 006D8 P.AGS: .ASCII <18>\RA60 PART 2 DJA1\
31 41 4A 44 006E7
30 30 3A 31 04 006EB P.AGT: .ASCII <4>\1:00\
49 52 44 20 4B 53 49 44 20 3A 31 41 4A 44 23 006F0 P.AGU: .ASCII \#DJA1: DISK DRIVE TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 45 56 006FF
45 54 45 4C 50 4D 0070E
42 4C 44 56 45 05 00714 P.AGV: .ASCII <5>\EVDLB\
00 0071A P.AGW: .ASCII <0>
00 0071B P.AGX: .ASCII <0>
30 41 47 58 04 0071C P.AGY: .ASCII <4>\XGA0\
00 00721 P.AGZ: .ASCII <0>
20 20 20 20 20 20 20 20 53 32 33 46 4D 44 12 00722 P.AHA: .ASCII <18>\DMF32S XGA0\
30 41 47 58 00731
30 30 3A 31 04 00735 P.AHB: .ASCII <4>\1:00\
4F 42 20 4F 42 4D 4F 43 20 3A 30 41 47 58 24 0073A P.AHC: .ASCII \$XGA0: COMBO BOARD TESTING INCOMPLETE\
43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 41 00749
45 54 45 4C 50 4D 4F 00758
43 4C 44 56 45 05 0075F P.AHD: .ASCII <5>\EVDLC\
4B 43 49 55 51 05 00765 P.AHE: .ASCII <5>\QUICK\
00 0076B P.AHF: .ASCII <0>
41 58 54 03 0076C P.AHG: .ASCII <3>\TXA\
00 00770 P.AHH: .ASCII <0>
2D 30 41 58 54 20 20 20 41 32 33 46 4D 44 12 00771 P.AHI: .ASCII <18>\DMF32A TXA0-TXA7\
37 41 58 54 00780
30 33 3A 30 04 00784 P.AHJ: .ASCII <4>\0:30\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 58 54 23 00789 P.AHK: .ASCII \#TXA: COMBO BOARD TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 00798
45 54 45 4C 50 4D 007A7
44 4C 44 56 45 05 007AD P.AHL: .ASCII <5>\EVDLD\
00 007B3 P.AHM: .ASCII <0>
00 007B4 P.AHN: .ASCII <0>
41 43 4C 03 007B5 P.AHO: .ASCII <3>\LCA\
00 007B9 P.AHP: .ASCII <0>
20 20 20 20 20 20 20 20 50 32 33 46 4D 44 12 007BA P.AHQ: .ASCII <18>\DMF32P LCA\
41 43 4C 20 007C9
35 31 3A 30 04 007CD P.AHR: .ASCII <4>\0:15\
41 4F 42 20 4F 42 4D 4F 43 20 3A 41 43 4C 23 007D2 P.AHS: .ASCII \#LCA: COMBO BOARD TESTING INCOMPLETE\
4F 43 4E 49 20 47 4E 49 54 53 45 54 20 44 52 007E1
45 54 45 4C 50 4D 007F0
20 44 41 4F 4C 05 007F6 P.AHT: .ASCII <5>\LOAD \
20 53 47 41 4C 46 20 54 45 53 0A 007FC P.AHU: .ASCII <10>\SET FLAGS \
47 41 4C 46 20 54 4E 45 56 45 20 54 45 53 10 00807 P.AHV: .ASCII <16>\SET EVENT FLAGS \
20 53 00816
20 54 43 45 4C 45 53 07 00818 P.AHW: .ASCII <7>\SELECT \
20 54 52 41 54 53 06 00820 P.AHX: .ASCII <6>\START \

```

```

$MODULE= P.AAA
CRD$GT_IDC_EVRAD_0= P.AAB
CRD$GT_IDC_EVRAD_0_SET_FLGS=
P.AAC
CRD$GT_IDC_EVRAD_0_SET_EVNT=
P.AAD

```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (25)

E 2

19-Sep-1985

Fiche 4

Frame E2

Sequence 635

CRD\$GT_IDC_EVRAD_0_DEV_NAME=
P.AAE
CRD\$GT_IDC_EVRAD_0_STRT_QUAL=
P.AAF
CRD\$GT_IDC_EVRAD_0_TST_STRT=
P.AAG
CRD\$GT_IDC_EVRAD_0_RUNTIME=
P.AAH
CRD\$GT_IDC_EVRAD_0_PREP_ERR=
P.AAI
CRD\$GT_IDC_EVRAD_1= P.AAJ
CRD\$GT_IDC_EVRAD_1_SET_FLGS=
P.AAK
CRD\$GT_IDC_EVRAD_1_SET_EVNT=
P.AAL
CRD\$GT_IDC_EVRAD_1_DEV_NAME=
P.AAM
CRD\$GT_IDC_EVRAD_1_STRT_QUAL=
P.AAN
CRD\$GT_IDC_EVRAD_1_TST_STRT=
P.AAO
CRD\$GT_IDC_EVRAD_1_RUNTIME=
P.AAP
CRD\$GT_IDC_EVRAD_1_PREP_ERR=
P.AAQ
CRD\$GT_IDC_EVDLB= P.AAR
CRD\$GT_IDC_EVDLB_SET_FLGS=
P.AAS
CRD\$GT_IDC_EVDLB_SET_EVNT=
P.AAT
CRD\$GT_IDC_EVDLB_DEV_NAME=
P.AAU
CRD\$GT_IDC_EVDLB_STRT_QUAL=
P.AAV
CRD\$GT_IDC_EVDLB_TST_STRT=
P.AAW
CRD\$GT_IDC_EVDLB_RUNTIME=
P.AAX
CRD\$GT_IDC_EVDLB_PREP_ERR=
P.AAY
CRD\$GT_IDC_EVDLC= P.AAZ
CRD\$GT_IDC_EVDLC_SET_FLGS=
P.ABA
CRD\$GT_IDC_EVDLC_SET_EVNT=
P.ABB
CRD\$GT_IDC_EVDLC_DEV_NAME=
P.ABC
CRD\$GT_IDC_EVDLC_STRT_QUAL=
P.ABD
CRD\$GT_IDC_EVDLC_TST_STRT=
P.ABE
CRD\$GT_IDC_EVDLC_RUNTIME=
P.ABF
CRD\$GT_IDC_EVDLC_PREP_ERR=
P.ABG

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CRD$GT_IDC_EVDLD= P.ABH
CRD$GT_IDC_EVDLD_SET_FLGS=
P.ABI
CRD$GT_IDC_EVDLD_SET_EVNT=
P.ABJ
CRD$GT_IDC_EVDLD_DEV_NAME=
P.ABK
CRD$GT_IDC_EVDLD_STRT_QUAL=
P.ABL
CRD$GT_IDC_EVDLD_TST_STRT=
P.ABM
CRD$GT_IDC_EVDLD_RUNTIME=
P.ABN
CRD$GT_IDC_EVDLD_PREP_ERR=
P.ABO
CRD$GT_LESI_EVRMB_0=P.ABP
CRD$GT_LESI_EVRMB_0_SET_FLGS=
P.ABQ
CRD$GT_LESI_EVRMB_0_SET_EVNT=
P.ABR
CRD$GT_LESI_EVRMB_0_DEV_NAME=
P.ABS
CRD$GT_LESI_EVRMB_0_STRT_QUAL=
P.ABT
CRD$GT_LESI_EVRMB_0_TST_STRT=
P.ABU
CRD$GT_LESI_EVRMB_0_RUNTIME=
P.ABV
CRD$GT_LESI_EVRMB_0_PREP_ERR=
P.ABW
CRD$GT_LESI_EVRMB_1=P.ABX
CRD$GT_LESI_EVRMB_1_SET_FLGS=
P.ABY
CRD$GT_LESI_EVRMB_1_SET_EVNT=
P.ABZ
CRD$GT_LESI_EVRMB_1 DEV_NAME=
P.ACA
CRD$GT_LESI_EVRMB_1 STRT_QUAL=
P.ACB
CRD$GT_LESI_EVRMB_1 TST_STRT=
P.ACC
CRD$GT_LESI_EVRMB_1_RUNTIME=
P.ACD
CRD$GT_LESI_EVRMB_1_PREP_ERR=
P.ACE
CRD$GT_UDA_0_EVRLA_0=
P.ACF
CRD$GT_UDA_0_EVRLA_0_SET_FLGS=
P.ACG
CRD$GT_UDA_0_EVRLA_0_SET_EVNT=
P.ACH
CRD$GT_UDA_0_EVRLA_0_DEV_NAME=
P.ACI
CRD$GT_UDA_0_EVRLA_0_STRT_QUAL=
P.ACJ
  
```

ZZ-ENSAB-2.0 CRD\$Build_Support_Table
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746
01-05 CRD\$Build_Support_Table 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (25)

G 2

19-Sep-1985

Fiche 4

Frame G2

Sequence 637

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```
CRD$GT_UDA_0_EVRLA_0_TST_STRT=
P.ACK
CRD$GT_UDA_0_EVRLA_0_RUNTIME=
P.ACL
CRD$GT_UDA_0_EVRLA_0_PREP_ERR=
P.ACM
CRD$GT_UDA_0_EVDLB= P.ACN
CRD$GT_UDA_0_EVDLB_SET_FLGS=
P.ACO
CRD$GT_UDA_0_EVDLB_SET_EVNT=
P.ACP
CRD$GT_UDA_0_EVDLB_DEV_NAME=
P.ACQ
CRD$GT_UDA_0_EVDLB_STRT_QUAL=
P.ACR
CRD$GT_UDA_0_EVDLB_TST_STRT=
P.ACS
CRD$GT_UDA_0_EVDLB_RUNTIME=
P.ACT
CRD$GT_UDA_0_EVDLB_PREP_ERR=
P.ACU
CRD$GT_UDA_0_EVDLC= P.ACV
CRD$GT_UDA_0_EVDLC_SET_FLGS=
P.ACW
CRD$GT_UDA_0_EVDLC_SET_EVNT=
P.ACX
CRD$GT_UDA_0_EVDLC_DEV_NAME=
P.ACY
CRD$GT_UDA_0_EVDLC_STRT_QUAL=
P.ACZ
CRD$GT_UDA_0_EVDLC_TST_STRT=
P.ADA
CRD$GT_UDA_0_EVDLC_RUNTIME=
P.ADB
CRD$GT_UDA_0_EVDLC_PREP_ERR=
P.ADC
CRD$GT_UDA_0_EVDLD= P.ADD
CRD$GT_UDA_0_EVDLD_SET_FLGS=
P.ADE
CRD$GT_UDA_0_EVDLD_SET_EVNT=
P.ADF
CRD$GT_UDA_0_EVDLD_DEV_NAME=
P.ADG
CRD$GT_UDA_0_EVDLD_STRT_QUAL=
P.ADH
CRD$GT_UDA_0_EVDLD_TST_STRT=
P.ADI
CRD$GT_UDA_0_EVDLD_RUNTIME=
P.ADJ
CRD$GT_UDA_0_EVDLD_PREP_ERR=
P.ADK
CRD$GT_UDA_1_EVRLA_0=
P.ADL
CRD$GT_UDA_1_EVRLA_0_SET_FLGS=
P.ADM
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CRD$GT_UDA_1_EVRLA_0_SET_EVNT=  
P.ADN  
CRD$GT_UDA_1_EVRLA_0_DEV_NAME=  
P.ADO  
CRD$GT_UDA_1_EVRLA_0_STRT_QUAL=  
P.ADP  
CRD$GT_UDA_1_EVRLA_0_TST_STRT=  
P.ADQ  
CRD$GT_UDA_1_EVRLA_0_RUNTIME=  
P.ADR  
CRD$GT_UDA_1_EVRLA_0_PREP_ERR=  
P.ADS  
CRD$GT_UDA_1_EVRLA_1=  
P.ADT  
CRD$GT_UDA_1_EVRLA_1_SET_FLGS=  
P.ADU  
CRD$GT_UDA_1_EVRLA_1_SET_EVNT=  
P.ADV  
CRD$GT_UDA_1_EVRLA_1_DEV_NAME=  
P.ADW  
CRD$GT_UDA_1_EVRLA_1_STRT_QUAL=  
P.ADX  
CRD$GT_UDA_1_EVRLA_1_TST_STRT=  
P.ADY  
CRD$GT_UDA_1_EVRLA_1_RUNTIME=  
P.ADZ  
CRD$GT_UDA_1_EVRLA_1_PREP_ERR=  
P.AEA  
CRD$GT_UDA_1_EVDLB= P.AEB  
CRD$GT_UDA_1_EVDLB_SET_FLGS=  
P.AEC  
CRD$GT_UDA_1_EVDLB_SET_EVNT=  
P.AED  
CRD$GT_UDA_1_EVDLB_DEV_NAME=  
P.AEE  
CRD$GT_UDA_1_EVDLB_STRT_QUAL=  
P.AEF  
CRD$GT_UDA_1_EVDLB_TST_STRT=  
P.AEG  
CRD$GT_UDA_1_EVDLB_RUNTIME=  
P.AEH  
CRD$GT_UDA_1_EVDLB_PREP_ERR=  
P.AEI  
CRD$GT_UDA_1_EVDLC= P.AEJ  
CRD$GT_UDA_1_EVDLC_SET_FLGS=  
P.AEK  
CRD$GT_UDA_1_EVDLC_SET_EVNT=  
P.AEL  
CRD$GT_UDA_1_EVDLC_DEV_NAME=  
P.AEM  
CRD$GT_UDA_1_EVDLC_STRT_QUAL=  
P.AEN  
CRD$GT_UDA_1_EVDLC_TST_STRT=  
P.AEO  
CRD$GT_UDA_1_EVDLC_RUNTIME=
```

P.AEP
 CRD\$GT_UDA_1_EVDLC_PREP_ERR=
 P.AEQ
 CRD\$GT_UDA_1_EVDLD= P.AER
 CRD\$GT_UDA_1_EVDLD_SET_FLGS=
 P.AES
 CRD\$GT_UDA_1_EVDLD_SET_EVNT=
 P.AET
 CRD\$GT_UDA_1_EVDLD_DEV_NAME=
 P.AEU
 CRD\$GT_UDA_1_EVDLD_STRT_QUAL=
 P.AEV
 CRD\$GT_UDA_1_EVDLD_TST_STRT=
 P.AEW
 CRD\$GT_UDA_1_EVDLD_RUNTIME=
 P.AEX
 CRD\$GT_UDA_1_EVDLD_PREP_ERR=
 P.AEY
 CRD\$GT_UDA_2_EVRLA_0-
 P.AEZ
 CRD\$GT_UDA_2_EVRLA_0_SET_FLGS=
 P.AFA
 CRD\$GT_UDA_2_EVRLA_0_SET_EVNT=
 P.AFB
 CRD\$GT_UDA_2_EVRLA_0_DEV_NAME=
 P.AFC
 CRD\$GT_UDA_2_EVRLA_0_STRT_QUAL=
 P.AFD
 CRD\$GT_UDA_2_EVRLA_0_TST_STRT=
 P.AFE
 CRD\$GT_UDA_2_EVRLA_0_RUNTIME=
 P.AFF
 CRD\$GT_UDA_2_EVRLA_0_PREP_ERR-
 P.AFG
 CRD\$GT_UDA_2_EVDLB= P.AFH
 CRD\$GT_UDA_2_EVDLB_SET_FLGS=
 P.AFI
 CRD\$GT_UDA_2_EVDLB_SET_EVNT-
 P.AFJ
 CRD\$GT_UDA_2_EVDLB_DEV_NAME=
 P.AFK
 CRD\$GT_UDA_2_EVDLB_STRT_QUAL=
 P.AFL
 CRD\$GT_UDA_2_EVDLB_TST_STRT=
 P.AFM
 CRD\$GT_UDA_2_EVDLB_RUNTIME=
 P.AFN
 CRD\$GT_UDA_2_EVDLB_PREP_ERR=
 P.AFO
 CRD\$GT_UDA_2_EVDLC= P.AFP
 CRD\$GT_UDA_2_EVDLC_SET_FLGS-
 P.AFQ
 CRD\$GT_UDA_2_EVDLC_SET_EVNT-
 P.AFR
 CRD\$GT_UDA_2_EVDLC_DEV_NAME-

```

P.AFS
CRD$GT_UDA_2_EVDLC_STRT_QUAL=
P.AFT
CRD$GT_UDA_2_EVDLC_TST_STRT=
P.AFU
CRD$GT_UDA_2_EVDLC_RUNTIME=
P.AFV
CRD$GT_UDA_2_EVDLC_PREP_ERR=
P.AFW
CRD$GT_UDA_2_EVDLD= P.AFX
CRD$GT_UDA_2_EVDLD_SET_FLGS=
P.AFY
CRD$GT_UDA_2_EVDLD_SET_EVNT=
P.AFZ
CRD$GT_UDA_2_EVDLD_DEV_NAME=
P.AGA
CRD$GT_UDA_2_EVDLD_STRT_QUAL=
P.AGB
CRD$GT_UDA_2_EVDLD_TST_STRT=
P.AGC
CRD$GT_UDA_2_EVDLD_RUNTIME=
P.AGD
CRD$GT_UDA_2_EVDLD_PREP_ERR=
P.AGE
CRD$GT_UDA_3_EVRLA_0=
P.AGF
CRD$GT_UDA_3_EVRLA_0_SET_FLGS=
P.AGG
CRD$GT_UDA_3_EVRLA_0_SET_EVNT=
P.AGH
CRD$GT_UDA_3_EVRLA_0_DEV_NAME=
P.AGI
CRD$GT_UDA_3_EVRLA_0_STRT_QUAL=
P.AGJ
CRD$GT_UDA_3_EVRLA_0_TST_STRT=
P.AGK
CRD$GT_UDA_3_EVRLA_0_RUNTIME=
P.AGL
CRD$GT_UDA_3_EVRLA_0_PREP_ERR=
P.AGM
CRD$GT_UDA_3_EVRLA_1=
P.AGN
CRD$GT_UDA_3_EVRLA_1_SET_FLGS=
P.AGO
CRD$GT_UDA_3_EVRLA_1_SET_EVNT=
P.AGP
CRD$GT_UDA_3_EVRLA_1_DEV_NAME=
P.AGQ
CRD$GT_UDA_3_EVRLA_1_STRT_QUAL=
P.AGR
CRD$GT_UDA_3_EVRLA_1_TST_STRT=
P.AGS
CRD$GT_UDA_3_EVRLA_1_RUNTIME=
P.AGT
CRD$GT_UDA_3_EVRLA_1_PREP_ERR=

```

```

    P.AGU
CRD$GT_UDA_3_EVDLB= P.AGV
CRD$GT_UDA_3_EVDLB_SET_FLGS=
    P.AGW
CRD$GT_UDA_3_EVDLB_SET_EVNT=
    P.AGX
CRD$GT_UDA_3_EVDLB_DEV_NAME=
    P.AGY
CRD$GT_UDA_3_EVDLB_STRT_QUAL=
    P.AGZ
CRD$GT_UDA_3_EVDLB_TST_STRT=
    P.AHA
CRD$GT_UDA_3_EVDLB_RUNTIME=
    P.AHB
CRD$GT_UDA_3_EVDLB_PREP_ERR=
    P.AHC
CRD$GT_UDA_3_EVDLC= P.AHD
CRD$GT_UDA_3_EVDLC_SET_FLGS=
    P.AHE
CRD$GT_UDA_3_EVDLC_SET_EVNT=
    P.AHF
CRD$GT_UDA_3_EVDLC_DEV_NAME=
    P.AHG
CRD$GT_UDA_3_EVDLC_STRT_QUAL=
    P.AHH
CRD$GT_UDA_3_EVDLC_TST_STRT=
    P.AHI
CRD$GT_UDA_3_EVDLC_RUNTIME=
    P.AHJ
CRD$GT_UDA_3_EVDLC_PREP_ERR=
    P.AHK
CRD$GT_UDA_3_EVDLD= P.AHL
CRD$GT_UDA_3_EVDLD_SET_FLGS=
    P.AHM
CRD$GT_UDA_3_EVDLD_SET_EVNT=
    P.AHN
CRD$GT_UDA_3_EVDLD_DEV_NAME=
    P.AHO
CRD$GT_UDA_3_EVDLD_STRT_QUAL=
    P.AHP
CRD$GT_UDA_3_EVDLD_TST_STRT=
    P.AHQ
CRD$GT_UDA_3_EVDLD_RUNTIME=
    P.AHR
CRD$GT_UDA_3_EVDLD_PREP_ERR=
    P.AHS
CRD$GT_DS_LOAD_COM--P.AHT
CRD$GT_DS_SET_FLAGS_COM==
    P.AHU
CRD$GT_DS_SET_EVENT_COM==
    P.AHV
CRD$GT_DS_SELECT_COM--
    P.AHW
CRD$GT_DS_START_COM=-
    P.AHX
  
```


.EXTRN CRD\$BUILD_SUPPORT_TABLE
.EXTRN CRD\$PRINT_HARDWARE_SUPPORT

.PSECT CODE,NOWRT, SHR, PIC,2

```
0004 00000 .ENTRY CRD$BUILD_SUPPORT_TABLE, Save R2 ; 0563
52 D4 00002 CLRL DIAG ; 0678
51 D4 00004 1$: CLRL ENTRY ; 0679
50 6241 DE 00006 2$: MOVAL (DIAG)[ENTRY], R0 ; 0681
05 52 D1 0000A CMPL DIAG, #5 ;
05 18 0000D BGEQ 3$ ;
08 51 D1 0000F CMPL ENTRY, #8 ;
05 19 00012 BLSS 4$ ;
50 01 CE 00014 3$: MNEGL #1, R0 ;
08 11 00017 BRB 5$ ;
50 00000000'EF40 9E 00019 4$: MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE[R0], R0 ;
60 D4 00021 5$: CLRL (R0) ;
DF 51 07 F3 00023 AOBLEQ #7, ENTRY, 2$ ; 0679
FFD3 52 20 00000080 8F F1 00027 ACBL #128, #32, DIAG, 1$ ;
00000000' EF 00000000' EF 9E 00031 MOVAB CRD$GT_IDC_EVRAD_0, - ; 0688
CRD$AL_IDC_HDWR_SPRT_TABLE ;
00000000' EF 00000000' EF 9E 0003C MOVAB CRD$GT_IDC_EVRAD_0_SET_FLGS, - ; 0689
CRD$AL_IDC_HDWR_SPRT_TABLE+4 ;
00000000' EF 00000000' EF 9E 00047 MOVAB CRD$GT_IDC_EVRAD_0_SET_EVNT, - ; 0690
CRD$AL_IDC_HDWR_SPRT_TABLE+8 ;
00000000' EF 00000000' EF 9E 00052 MOVAB CRD$GT_IDC_EVRAD_0_STRT_QUAL, - ; 0691
CRD$AL_IDC_HDWR_SPRT_TABLE+16 ;
00000000' EF 00000000' EF 9E 0005D MOVAB CRD$GT_IDC_EVRAD_0_DEV_NAME, - ; 0692
CRD$AL_IDC_HDWR_SPRT_TABLE+12 ;
00000000' EF 00000000' EF 9E 00068 MOVAB CRD$GT_IDC_EVRAD_0_TST_STRT, - ; 0693
CRD$AL_IDC_HDWR_SPRT_TABLE+20 ;
00000000' EF 00000000' EF 9E 00073 MOVAB CRD$GT_IDC_EVRAD_0_RUNTIME, - ; 0694
CRD$AL_IDC_HDWR_SPRT_TABLE+24 ;
00000000' EF 00000000' EF 9E 0007E MOVAB CRD$GT_IDC_EVRAD_0_PREP_ERR, - ; 0695
CRD$AL_IDC_HDWR_SPRT_TABLE+28 ;
00000000' EF 00000000' EF 9E 00089 MOVAB CRD$GT_IDC_EVRAD_1, - ; 0697
CRD$AL_IDC_HDWR_SPRT_TABLE+32 ;
00000000' EF 00000000' EF 9E 00094 MOVAB CRD$GT_IDC_EVRAD_1_SET_FLGS, - ; 0698
CRD$AL_IDC_HDWR_SPRT_TABLE+36 ;
00000000' EF 00000000' EF 9E 0009F MOVAB CRD$GT_IDC_EVRAD_1_SET_EVNT, - ; 0699
CRD$AL_IDC_HDWR_SPRT_TABLE+40 ;
00000000' EF 00000000' EF 9E 000AA MOVAB CRD$GT_IDC_EVRAD_1_STRT_QUAL, - ; 0700
CRD$AL_IDC_HDWR_SPRT_TABLE+48 ;
00000000' EF 00000000' EF 9E 000B5 MOVAB CRD$GT_IDC_EVRAD_1_DEV_NAME, - ; 0701
CRD$AL_IDC_HDWR_SPRT_TABLE+44 ;
00000000' EF 00000000' EF 9E 000C0 MOVAB CRD$GT_IDC_EVRAD_1_TST_STRT, - ; 0702
CRD$AL_IDC_HDWR_SPRT_TABLE+52 ;
00000000' EF 00000000' EF 9E 000CB MOVAB CRD$GT_IDC_EVRAD_1_RUNTIME, - ; 0703
CRD$AL_IDC_HDWR_SPRT_TABLE+56 ;
00000000' EF 00000000' EF 9E 000D6 MOVAB CRD$GT_IDC_EVRAD_1_PREP_ERR, - ; 0704
CRD$AL_IDC_HDWR_SPRT_TABLE+60 ;
00000000' EF 00000000' EF 9E 000E1 MOVAB CRD$GT_IDC_EVDLB, - ; 0706
CRD$AL_IDC_HDWR_SPRT_TABLE+64 ;
00000000' EF 00000000' EF 9E 000EC MOVAB CRD$GT_IDC_EVDLB_SET_FLGS, - ; 0707
CRD$AL_IDC_HDWR_SPRT_TABLE+68 ;
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00000000' EF 00000000' EF 9E 000F7 MOVAB CRD$GT_IDC_EVDLB_SET_EVNT, - ; 0708
CRD$AL IDC_HDWR_SPRT_TABLE+72 ;
00000000' EF 00000000' EF 9E 00102 MOVAB CRD$GT_IDC_EVDLB_STRT_QUAL, - ; 0709
CRD$AL IDC_HDWR_SPRT_TABLE+80 ;
00000000' EF 00000000' EF 9E 0010D MOVAB CRD$GT_IDC_EVDLB_DEV_NAME, - ; 0710
CRD$AL IDC_HDWR_SPRT_TABLE+76 ;
00000000' EF 00000000' EF 9E 00118 MOVAB CRD$GT_IDC_EVDLB_TST_STRT, - ; 0711
CRD$AL IDC_HDWR_SPRT_TABLE+84 ;
00000000' EF 00000000' EF 9E 00123 MOVAB CRD$GT_IDC_EVDLB_RUNTIME, - ; 0712
CRD$AL IDC_HDWR_SPRT_TABLE+88 ;
00000000' EF 00000000' EF 9E 0012E MOVAB CRD$GT_IDC_EVDLB_PREP_ERR, - ; 0713
CRD$AL IDC_HDWR_SPRT_TABLE+92 ;
00000000' EF 00000000' EF 9E 00139 MOVAB CRD$GT_IDC_EVDLC, - ; 0715
CRD$AL IDC_HDWR_SPRT_TABLE+96 ;
00000000' EF 00000000' EF 9E 00144 MOVAB CRD$GT_IDC_EVDLC_SET_FLGS, - ; 0716
CRD$AL IDC_HDWR_SPRT_TABLE+100 ;
00000000' EF 00000000' EF 9E 0014F MOVAB CRD$GT_IDC_EVDLC_SET_EVNT, - ; 0717
CRD$AL IDC_HDWR_SPRT_TABLE+104 ;
00000000' EF 00000000' EF 9E 0015A MOVAB CRD$GT_IDC_EVDLC_STRT_QUAL, - ; 0718
CRD$AL IDC_HDWR_SPRT_TABLE+112 ;
00000000' EF 00000000' EF 9E 00165 MOVAB CRD$GT_IDC_EVDLC_DEV_NAME, - ; 0719
CRD$AL IDC_HDWR_SPRT_TABLE+108 ;
00000000' EF 00000000' EF 9E 00170 MOVAB CRD$GT_IDC_EVDLC_TST_STRT, - ; 0720
CRD$AL IDC_HDWR_SPRT_TABLE+116 ;
00000000' EF 00000000' EF 9E 0017B MOVAB CRD$GT_IDC_EVDLC_RUNTIME, - ; 0721
CRD$AL IDC_HDWR_SPRT_TABLE+120 ;
00000000' EF 00000000' EF 9E 00186 MOVAB CRD$GT_IDC_EVDLC_PREP_ERR, - ; 0722
CRD$AL IDC_HDWR_SPRT_TABLE+124 ;
00000000' EF 00000000' EF 9E 00191 MOVAB CRD$GT_IDC_EVDLD, - ; 0724
CRD$AL IDC_HDWR_SPRT_TABLE+128 ;
00000000' EF 00000000' EF 9E 0019C MOVAB CRD$GT_IDC_EVDLD_SET_FLGS, - ; 0725
CRD$AL IDC_HDWR_SPRT_TABLE+132 ;
00000000' EF 00000000' EF 9E 001A7 MOVAB CRD$GT_IDC_EVDLD_SET_EVNT, - ; 0726
CRD$AL IDC_HDWR_SPRT_TABLE+136 ;
00000000' EF 00000000' EF 9E 001B2 MOVAB CRD$GT_IDC_EVDLD_STRT_QUAL, - ; 0727
CRD$AL IDC_HDWR_SPRT_TABLE+144 ;
00000000' EF 00000000' EF 9E 001BD MOVAB CRD$GT_IDC_EVDLD_DEV_NAME, - ; 0728
CRD$AL IDC_HDWR_SPRT_TABLE+140 ;
00000000' EF 00000000' EF 9E 001C8 MOVAB CRD$GT_IDC_EVDLD_TST_STRT, - ; 0729
CRD$AL IDC_HDWR_SPRT_TABLE+148 ;
00000000' EF 00000000' EF 9E 001D3 MOVAB CRD$GT_IDC_EVDLD_RUNTIME, - ; 0730
CRD$AL IDC_HDWR_SPRT_TABLE+152 ;
00000000' EF 00000000' EF 9E 001DE MOVAB CRD$GT_IDC_EVDLD_PREP_ERR, - ; 0731
CRD$AL IDC_HDWR_SPRT_TABLE+156 ;
52 D4 001E9 CLRL DIAG ; 0743
51 D4 001EB 6$: CLRL ENTRY ; 0744
50 6241 DE 001ED 7$: MOVAL (DIAG)[ENTRY], R0 ; 0746
03 52 D1 001F1 CMPL DIAG, #3 ;
05 18 001F4 BGEQ 8$ ;
08 51 D1 001F6 CMPL ENTRY, #8 ;
05 19 001F9 BLSS 9$ ;
50 01 CE 001FB 8$: MNEGL #1, R0 ;
08 11 001FE BRB 10$ ;
50 00000000'EF40 9E 00200 9$: MOVAB CRD$AL_LESI_HDWR_SPRT_TABLE[R0], R0 ;
60 D4 00208 10$: CLRL (R0) ;

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```

FFD3 DF 51 07 F3 0020A AOBLEQ #7, ENTRY, 7$ ; 0744
      52 20 00000040 8F F1 0020E ACBL #64, #32, DIAG, 6$ ;
00000000' EF 00000000' EF 9E 00218 MOVAB CRD$GT_LESI_EVRMB_0, - ; 0753
      CRD$AL_LESI_HDWR_SPRT_TABLE ;
00000000' EF 00000000' EF 9E 00223 MOVAB CRD$GT_LESI_EVRMB_0_SET_FLGS, - ; 0754
      CRD$AL_LESI_HDWR_SPRT_TABLE+4 ;
00000000' EF 00000000' EF 9E 0022E MOVAB CRD$GT_LESI_EVRMB_0_SET_EVNT, - ; 0755
      CRD$AL_LESI_HDWR_SPRT_TABLE+8 ;
00000000' EF 00000000' EF 9E 00239 MOVAB CRD$GT_LESI_EVRMB_0_STRT_QUAL, - ; 0756
      CRD$AL_LESI_HDWR_SPRT_TABLE+16 ;
00000000' EF 00000000' EF 9E 00244 MOVAB CRD$GT_LESI_EVRMB_0_DEV_NAME, - ; 0757
      CRD$AL_LESI_HDWR_SPRT_TABLE+12 ;
00000000' EF 00000000' EF 9E 0024F MOVAB CRD$GT_LESI_EVRMB_0_TST_STRT, - ; 0758
      CRD$AL_LESI_HDWR_SPRT_TABLE+20 ;
00000000' EF 00000000' EF 9E 0025A MOVAB CRD$GT_LESI_EVRMB_0_RUNTIME, - ; 0759
      CRD$AL_LESI_HDWR_SPRT_TABLE+24 ;
00000000' EF 00000000' EF 9E 00265 MOVAB CRD$GT_LESI_EVRMB_0_PREP_ERR, - ; 0760
      CRD$AL_LESI_HDWR_SPRT_TABLE+28 ;
00000000' EF 00000000' EF 9E 00270 MOVAB CRD$GT_LESI_EVRMB_1, - ; 0762
      CRD$AL_LESI_HDWR_SPRT_TABLE+32 ;
00000000' EF 00000000' EF 9E 0027B MOVAB CRD$GT_LESI_EVRMB_1_SET_FLGS, - ; 0763
      CRD$AL_LESI_HDWR_SPRT_TABLE+36 ;
00000000' EF 00000000' EF 9E 00286 MOVAB CRD$GT_LESI_EVRMB_1_SET_EVNT, - ; 0764
      CRD$AL_LESI_HDWR_SPRT_TABLE+40 ;
00000000' EF 00000000' EF 9E 00291 MOVAB CRD$GT_LESI_EVRMB_1_STRT_QUAL, - ; 0765
      CRD$AL_LESI_HDWR_SPRT_TABLE+48 ;
00000000' EF 00000000' EF 9E 0029C MOVAB CRD$GT_LESI_EVRMB_1_DEV_NAME, - ; 0766
      CRD$AL_LESI_HDWR_SPRT_TABLE+44 ;
00000000' EF 00000000' EF 9E 002A7 MOVAB CRD$GT_LESI_EVRMB_1_TST_STRT, - ; 0767
      CRD$AL_LESI_HDWR_SPRT_TABLE+52 ;
00000000' EF 00000000' EF 9E 002B2 MOVAB CRD$GT_LESI_EVRMB_1_RUNTIME, - ; 0768
      CRD$AL_LESI_HDWR_SPRT_TABLE+56 ;
00000000' EF 00000000' EF 9E 002BD MOVAB CRD$GT_LESI_EVRMB_1_PREP_ERR, - ; 0769
      CRD$AL_LESI_HDWR_SPRT_TABLE+60 ;
      52 D4 002C8 CLRL DIAG ; 0793
      51 D4 002CA 11$ : CLRL ENTRY ; 0794
      50 6241 DE 002CC 12$ : MOVAL (DIAG)[ENTRY], R0 ; 0796
      04 52 D1 002D0 CMPL DIAG, #4 ;
      05 18 002D3 BGEQ 13$ ;
      08 51 D1 002D5 CMPL ENTRY, #8 ;
      05 19 002D8 BLSS 14$ ;
      50 01 CE 002DA 13$ : MNEGL #1, R0 ;
      08 11 002DD BRB 15$ ;
      50 00000000' EF 40 9E 002DF 14$ : MOVAB CRD$AL_UDA_0_HDWR_SPRT_TABLE[R0], R0 ;
      60 D4 002E7 15$ : CLRL (R0) ;
FFD3 DF 51 07 F3 002E9 AOBLEQ #7, ENTRY, 12$ ; 0794
      52 20 00000060 8F F1 002ED ACBL #96, #32, DIAG, 11$ ;
00000000' EF 00000000' EF 9E 002F7 MOVAB CRD$GT_UDA_0_EVRLA_0, - ; 0803
      CRD$AL_UDA_0_HDWR_SPRT_TABLE ;
00000000' EF 00000000' EF 9E 00302 MOVAB CRD$GT_UDA_0_EVRLA_0_SET_FLGS, - ; 0804
      CRD$AL_UDA_0_HDWR_SPRT_TABLE+4 ;
00000000' EF 00000000' EF 9E 0030D MOVAB CRD$GT_UDA_0_EVRLA_0_SET_EVNT, - ; 0805
      CRD$AL_UDA_0_HDWR_SPRT_TABLE+8 ;
00000000' EF 00000000' EF 9E 00318 MOVAB CRD$GT_UDA_0_EVRLA_0_STRT_QUAL, - ; 0806
      CRD$AL_UDA_0_HDWR_SPRT_TABLE+16 ;

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```
00000000' EF 00000000' EF 9E 00323 MOVAB CRD$GT_UDA_0_EVRLA_0_DEV_NAME, - ; 0807
CRD$AL_UDA_0_HDWR,SPRT_TABLE+12 ;
00000000' EF 00000000' EF 9E 0032E MOVAB CRD$GT_UDA_0_EVRLA_0_TST_STRT, - ; 0808
CRD$AL_UDA_0_HDWR,SPRT_TABLE+20 ;
00000000' EF 00000000' EF 9E 00339 MOVAB CRD$GT_UDA_0_EVRLA_0_RUNTIME, - ; 0809
CRD$AL_UDA_0_HDWR,SPRT_TABLE+24 ;
00000000' EF 00000000' EF 9E 00344 MOVAB CRD$GT_UDA_0_EVRLA_0_PREP_ERR, - ; 0810
CRD$AL_UDA_0_HDWR,SPRT_TABLE+28 ;
00000000' EF 00000000' EF 9E 0034F MOVAB CRD$GT_UDA_0_EVDLB, - ; 0812
CRD$AL_UDA_0_HDWR,SPRT_TABLE+32 ;
00000000' EF 00000000' EF 9E 0035A MOVAB CRD$GT_UDA_0_EVDLB_SET_FLGS, - ; 0813
CRD$AL_UDA_0_HDWR,SPRT_TABLE+36 ;
00000000' EF 00000000' EF 9E 00365 MOVAB CRD$GT_UDA_0_EVDLB_SET_EVNT, - ; 0814
CRD$AL_UDA_0_HDWR,SPRT_TABLE+40 ;
00000000' EF 00000000' EF 9E 00370 MOVAB CRD$GT_UDA_0_EVDLB_STRT_QUAL, - ; 0815
CRD$AL_UDA_0_HDWR,SPRT_TABLE+48 ;
00000000' EF 00000000' EF 9E 0037B MOVAB CRD$GT_UDA_0_EVDLB_DEV_NAME, - ; 0816
CRD$AL_UDA_0_HDWR,SPRT_TABLE+44 ;
00000000' EF 00000000' EF 9E 00386 MOVAB CRD$GT_UDA_0_EVDLB_TST_STRT, - ; 0817
CRD$AL_UDA_0_HDWR,SPRT_TABLE+52 ;
00000000' EF 00000000' EF 9E 00391 MOVAB CRD$GT_UDA_0_EVDLB_RUNTIME, - ; 0818
CRD$AL_UDA_0_HDWR,SPRT_TABLE+56 ;
00000000' EF 00000000' EF 9E 0039C MOVAB CRD$GT_UDA_0_EVDLB_PREP_ERR, - ; 0819
CRD$AL_UDA_0_HDWR,SPRT_TABLE+60 ;
00000000' EF 00000000' EF 9E 003A7 MOVAB CRD$GT_UDA_0_EVDLC, - ; 0821
CRD$AL_UDA_0_HDWR,SPRT_TABLE+64 ;
00000000' EF 00000000' EF 9E 003B2 MOVAB CRD$GT_UDA_0_EVDLC_SET_FLGS, - ; 0822
CRD$AL_UDA_0_HDWR,SPRT_TABLE+68 ;
00000000' EF 00000000' EF 9E 003BD MOVAB CRD$GT_UDA_0_EVDLC_SET_EVNT, - ; 0823
CRD$AL_UDA_0_HDWR,SPRT_TABLE+72 ;
00000000' EF 00000000' EF 9E 003C8 MOVAB CRD$GT_UDA_0_EVDLC_STRT_QUAL, - ; 0824
CRD$AL_UDA_0_HDWR,SPRT_TABLE+80 ;
00000000' EF 00000000' EF 9E 003D3 MOVAB CRD$GT_UDA_0_EVDLC_DEV_NAME, - ; 0825
CRD$AL_UDA_0_HDWR,SPRT_TABLE+76 ;
00000000' EF 00000000' EF 9E 003DE MOVAB CRD$GT_UDA_0_EVDLC_TST_STRT, - ; 0826
CRD$AL_UDA_0_HDWR,SPRT_TABLE+84 ;
00000000' EF 00000000' EF 9E 003E9 MOVAB CRD$GT_UDA_0_EVDLC_RUNTIME, - ; 0827
CRD$AL_UDA_0_HDWR,SPRT_TABLE+88 ;
00000000' EF 00000000' EF 9E 003F4 MOVAB CRD$GT_UDA_0_EVDLC_PREP_ERR, - ; 0828
CRD$AL_UDA_0_HDWR,SPRT_TABLE+92 ;
00000000' EF 00000000' EF 9E 003FF MOVAB CRD$GT_UDA_0_EVDLD, - ; 0830
CRD$AL_UDA_0_HDWR,SPRT_TABLE+96 ;
00000000' EF 00000000' EF 9E 0040A MOVAB CRD$GT_UDA_0_EVDLD_SET_FLGS, - ; 0831
CRD$AL_UDA_0_HDWR,SPRT_TABLE+100 ;
00000000' EF 00000000' EF 9E 00415 MOVAB CRD$GT_UDA_0_EVDLD_SET_EVNT, - ; 0832
CRD$AL_UDA_0_HDWR,SPRT_TABLE+104 ;
00000000' EF 00000000' EF 9E 00420 MOVAB CRD$GT_UDA_0_EVDLD_STRT_QUAL, - ; 0833
CRD$AL_UDA_0_HDWR,SPRT_TABLE+112 ;
00000000' EF 00000000' EF 9E 0042B MOVAB CRD$GT_UDA_0_EVDLD_DEV_NAME, - ; 0834
CRD$AL_UDA_0_HDWR,SPRT_TABLE+108 ;
00000000' EF 00000000' EF 9E 00436 MOVAB CRD$GT_UDA_0_EVDLD_TST_STRT, - ; 0835
CRD$AL_UDA_0_HDWR,SPRT_TABLE+116 ;
00000000' EF 00000000' EF 9E 00441 MOVAB CRD$GT_UDA_0_EVDLD_RUNTIME, - ; 0836
CRD$AL_UDA_0_HDWR,SPRT_TABLE+120 ;
00000000' EF 00000000' EF 9E 0044C MOVAB CRD$GT_UDA_0_EVDLD_PREP_ERR, - ; 0837
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    CRD$AL_UDA_0_HDWR_SPRT_TABLE+124 ;
52 D4 00457 CLRL DIAG ; 0852
51 D4 00459 16$ CLRL ENTRY ; 0853
50 6241 DE 0045B 17$ MOVAL (DIAG)(ENTRY), R0 ; 0855
05 52 D1 0045F CMPL DIAG, #5 ;
05 18 00462 BGEQ 18$ ;
08 51 D1 00464 CMPL ENTRY, #8 ;
05 19 00467 BLSS 19$ ;
50 01 CE 00469 18$ MNEGL #1, R0 ;
08 11 0046C BRB 20$ ;
50 00000000 EF40 9E 0046E 19$ MOVAB CRD$AL_UDA_1_HDWR_SPRT_TABLE(R0), R0 ;
60 D4 00476 20$ CLRL (R0) ;
DF 51 07 F3 00478 AOBLEQ #7, ENTRY, 17$ ; 0853
FFD3 52 20 00000080 8F F1 0047C ACBL #128, #32, DIAG, 16$ ;
00000000 EF 00000000 EF 9E 00486 MOVAB CRD$GT_UDA_1_EVRLA_0, - ; 0862
    CRD$AL_UDA_1_HDWR_SPRT_TABLE ;
00000000 EF 00000000 EF 9E 00491 MOVAB CRD$GT_UDA_1_EVRLA_0_SET_FLGS, - ; 0863
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+4 ;
00000000 EF 00000000 EF 9E 0049C MOVAB CRD$GT_UDA_1_EVRLA_0_SET_EVNT, - ; 0864
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+8 ;
00000000 EF 00000000 EF 9E 004A7 MOVAB CRD$GT_UDA_1_EVRLA_0_STRT_QUAL, - ; 0865
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+16 ;
00000000 EF 00000000 EF 9E 004B2 MOVAB CRD$GT_UDA_1_EVRLA_0_DEV_NAME, - ; 0866
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+12 ;
00000000 EF 00000000 EF 9E 004BD MOVAB CRD$GT_UDA_1_EVRLA_0_TST_STRT, - ; 0867
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+20 ;
00000000 EF 00000000 EF 9E 004C8 MOVAB CRD$GT_UDA_1_EVRLA_0_RUNTIME, - ; 0868
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+24 ;
00000000 EF 00000000 EF 9E 004D3 MOVAB CRD$GT_UDA_1_EVRLA_0_PREP_ERR, - ; 0869
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+28 ;
00000000 EF 00000000 EF 9E 004DE MOVAB CRD$GT_UDA_1_EVRLA_1, - ; 0871
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+32 ;
00000000 EF 00000000 EF 9E 004E9 MOVAB CRD$GT_UDA_1_EVRLA_1_SET_FLGS, - ; 0872
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+36 ;
00000000 EF 00000000 EF 9E 004F4 MOVAB CRD$GT_UDA_1_EVRLA_1_SET_EVNT, - ; 0873
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+40 ;
00000000 EF 00000000 EF 9E 004FF MOVAB CRD$GT_UDA_1_EVRLA_1_STRT_QUAL, - ; 0874
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+48 ;
00000000 EF 00000000 EF 9E 0050A MOVAB CRD$GT_UDA_1_EVRLA_1_DEV_NAME, - ; 0875
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+44 ;
00000000 EF 00000000 EF 9E 00515 MOVAB CRD$GT_UDA_1_EVRLA_1_TST_STRT, - ; 0876
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+52 ;
00000000 EF 00000000 EF 9E 00520 MOVAB CRD$GT_UDA_1_EVRLA_1_RUNTIME, - ; 0877
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+56 ;
00000000 EF 00000000 EF 9E 0052B MOVAB CRD$GT_UDA_1_EVRLA_1_PREP_ERR, - ; 0878
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+60 ;
00000000 EF 00000000 EF 9E 00536 MOVAB CRD$GT_UDA_1_EVDLB, - ; 0880
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+64 ;
00000000 EF 00000000 EF 9E 00541 MOVAB CRD$GT_UDA_1_EVDLB_SET_FLGS, - ; 0881
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+68 ;
00000000 EF 00000000 EF 9E 0054C MOVAB CRD$GT_UDA_1_EVDLB_SET_EVNT, - ; 0882
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+72 ;
00000000 EF 00000000 EF 9E 00557 MOVAB CRD$GT_UDA_1_EVDLB_STRT_QUAL, - ; 0883
    CRD$AL_UDA_1_HDWR_SPRT_TABLE+80 ;
00000000 EF 00000000 EF 9E 00562 MOVAB CRD$GT_UDA_1_EVDLB_DEV_NAME, - ; 0884
  
```

```

    CRD$AL UDA 1 HDWR SPRT_TABLE+76
00000000' EF 00000000' EF 9E 0056D MOVAB CRD$GT_UDA_1_EVDLB_TST_STRT, - ; 0885
    CRD$AL UDA 1 HDWR SPRT_TABLE+84
00000000' EF 00000000' EF 9E 00578 MOVAB CRD$GT_UDA_1_EVDLB_RUNTIME, - ; 0886
    CRD$AL UDA 1 HDWR SPRT_TABLE+88
00000000' EF 00000000' EF 9E 00583 MOVAB CRD$GT_UDA_1_EVDLB_PREP_ERR, - ; 0887
    CRD$AL UDA 1 HDWR SPRT_TABLE+92
00000000' EF 00000000' EF 9E 0058E MOVAB CRD$GT_UDA_1_EVDLC, - ; 0889
    CRD$AL UDA 1 HDWR SPRT_TABLE+96
00000000' EF 00000000' EF 9E 00599 MOVAB CRD$GT_UDA_1_EVDLC_SET_FLGS, - ; 0890
    CRD$AL UDA 1 HDWR SPRT_TABLE+100
00000000' EF 00000000' EF 9E 005A4 MOVAB CRD$GT_UDA_1_EVDLC_SET_EVNT, - ; 0891
    CRD$AL UDA 1 HDWR SPRT_TABLE+104
00000000' EF 00000000' EF 9E 005AF MOVAB CRD$GT_UDA_1_EVDLC_STRT_QUAL, - ; 0892
    CRD$AL UDA 1 HDWR SPRT_TABLE+112
00000000' EF 00000000' EF 9E 005BA MOVAB CRD$GT_UDA_1_EVDLC_DEV_NAME, - ; 0893
    CRD$AL UDA 1 HDWR SPRT_TABLE+108
00000000' EF 00000000' EF 9E 005C5 MOVAB CRD$GT_UDA_1_EVDLC_TST_STRT, - ; 0894
    CRD$AL UDA 1 HDWR SPRT_TABLE+116
00000000' EF 00000000' EF 9E 005D0 MOVAB CRD$GT_UDA_1_EVDLC_RUNTIME, - ; 0895
    CRD$AL UDA 1 HDWR SPRT_TABLE+120
00000000' EF 00000000' EF 9E 005DB MOVAB CRD$GT_UDA_1_EVDLC_PREP_ERR, - ; 0896
    CRD$AL UDA 1 HDWR SPRT_TABLE+124
00000000' EF 00000000' EF 9E 005E6 MOVAB CRD$GT_UDA_1_EVDLD, - ; 0898
    CRD$AL UDA 1 HDWR SPRT_TABLE+128
00000000' EF 00000000' EF 9E 005F1 MOVAB CRD$GT_UDA_1_EVDLD_SET_FLGS, - ; 0899
    CRD$AL UDA 1 HDWR SPRT_TABLE+132
00000000' EF 00000000' EF 9E 005FC MOVAB CRD$GT_UDA_1_EVDLD_SET_EVNT, - ; 0900
    CRD$AL UDA 1 HDWR SPRT_TABLE+136
00000000' EF 00000000' EF 9E 00607 MOVAB CRD$GT_UDA_1_EVDLD_STRT_QUAL, - ; 0901
    CRD$AL UDA 1 HDWR SPRT_TABLE+144
00000000' EF 00000000' EF 9E 00612 MOVAB CRD$GT_UDA_1_EVDLD_DEV_NAME, - ; 0902
    CRD$AL UDA 1 HDWR SPRT_TABLE+140
00000000' EF 00000000' EF 9E 0061D MOVAB CRD$GT_UDA_1_EVDLD_TST_STRT, - ; 0903
    CRD$AL UDA 1 HDWR SPRT_TABLE+148
00000000' EF 00000000' EF 9E 00628 MOVAB CRD$GT_UDA_1_EVDLD_RUNTIME, - ; 0904
    CRD$AL UDA 1 HDWR SPRT_TABLE+152
00000000' EF 00000000' EF 9E 00633 MOVAB CRD$GT_UDA_1_EVDLD_PREP_ERR, - ; 0905
    CRD$AL UDA 1 HDWR SPRT_TABLE+156
52 D4 0063E CLRL DIAG ; 0918
51 D4 00640 21$ CLRL ENTRY ; 0919
50 6241 DE 00642 22$ MOVAL (DIAG)(ENTRY), R0 ; 0921
04 52 D1 00646 CMPL DIAG, #4 ;
05 18 00649 BGEQ 23$ ;
08 51 D1 0064B CMPL ENTRY, #8 ;
05 19 0064E BLSS 24$ ;
50 01 CE 00650 23$ MNEGL #1, R0 ;
08 11 00653 BRB 25$ ;
50 00000000' EF40 9E 00655 24$ MOVAB CRD$AL_UDA_2_HDWR_SPRT_TABLE[R0], R0 ;
60 D4 0065D 25$ CLRL (R0) ;
DF 51 07 F3 0065F AOBLEQ #7, ENTRY, 22$ ; 0919
FFD3 52 20 00000060 8F F1 00663 ACBL #96, #32, DIAG, 21$ ;
00000000' EF 00000000' EF 9E 0066D MOVAB CRD$GT_UDA_2_EVRLA_0, - ; 0928
    CRD$AL UDA 2 HDWR SPRT_TABLE
00000000' EF 00000000' EF 9E 00678 MOVAB CRD$GT_UDA_2_EVRLA_0_SET_FLGS, - ; 0929
  
```

CRD\$AL UDA_2 HDWR SPRT_TABLE+4	;		
00000000' EF 00000000' EF 9E 00683	MOVAB	CRD\$GT_UDA_2_EVRLA_0_SET_EVNT, -	; 0930
CRD\$AL UDA_2 HDWR SPRT_TABLE+8	;		
00000000' EF 00000000' EF 9E 0068E	MOVAB	CRD\$GT_UDA_2_EVRLA_0_STRT_QUAL, -	; 0931
CRD\$AL UDA_2 HDWR SPRT_TABLE+16	;		
00000000' EF 00000000' EF 9E 00699	MOVAB	CRD\$GT_UDA_2_EVRLA_0_DEV_NAME, -	; 0932
CRD\$AL UDA_2 HDWR SPRT_TABLE+12	;		
00000000' EF 00000000' EF 9E 006A4	MOVAB	CRD\$GT_UDA_2_EVRLA_0_TST_STRT, -	; 0933
CRD\$AL UDA_2 HDWR SPRT_TABLE+20	;		
00000000' EF 00000000' EF 9E 006AF	MOVAB	CRD\$GT_UDA_2_EVRLA_0_RUNTIME, -	; 0934
CRD\$AL UDA_2 HDWR SPRT_TABLE+24	;		
00000000' EF 00000000' EF 9E 006BA	MOVAB	CRD\$GT_UDA_2_EVRLA_0_PREP_ERR, -	; 0935
CRD\$AL UDA_2 HDWR SPRT_TABLE+28	;		
00000000' EF 00000000' EF 9E 006C5	MOVAB	CRD\$GT_UDA_2_EVDLB, -	; 0937
CRD\$AL UDA_2 HDWR SPRT_TABLE+32	;		
00000000' EF 00000000' EF 9E 006D0	MOVAB	CRD\$GT_UDA_2_EVDLB_SET_FLGS, -	; 0938
CRD\$AL UDA_2 HDWR SPRT_TABLE+36	;		
00000000' EF 00000000' EF 9E 006DB	MOVAB	CRD\$GT_UDA_2_EVDLB_SET_EVNT, -	; 0939
CRD\$AL UDA_2 HDWR SPRT_TABLE+40	;		
00000000' EF 00000000' EF 9E 006E6	MOVAB	CRD\$GT_UDA_2_EVDLB_STRT_QUAL, -	; 0940
CRD\$AL UDA_2 HDWR SPRT_TABLE+48	;		
00000000' EF 00000000' EF 9E 006F1	MOVAB	CRD\$GT_UDA_2_EVDLB_DEV_NAME, -	; 0941
CRD\$AL UDA_2 HDWR SPRT_TABLE+44	;		
00000000' EF 00000000' EF 9E 006FC	MOVAB	CRD\$GT_UDA_2_EVDLB_TST_STRT, -	; 0942
CRD\$AL UDA_2 HDWR SPRT_TABLE+52	;		
00000000' EF 00000000' EF 9E 00707	MOVAB	CRD\$GT_UDA_2_EVDLB_RUNTIME, -	; 0943
CRD\$AL UDA_2 HDWR SPRT_TABLE+56	;		
00000000' EF 00000000' EF 9E 00712	MOVAB	CRD\$GT_UDA_2_EVDLB_PREP_ERR, -	; 0944
CRD\$AL UDA_2 HDWR SPRT_TABLE+60	;		
00000000' EF 00000000' EF 9E 0071D	MOVAB	CRD\$GT_UDA_2_EVDLC, -	; 0946
CRD\$AL UDA_2 HDWR SPRT_TABLE+64	;		
00000000' EF 00000000' EF 9E 00728	MOVAB	CRD\$GT_UDA_2_EVDLC_SET_FLGS, -	; 0947
CRD\$AL UDA_2 HDWR SPRT_TABLE+68	;		
00000000' EF 00000000' EF 9E 00733	MOVAB	CRD\$GT_UDA_2_EVDLC_SET_EVNT, -	; 0948
CRD\$AL UDA_2 HDWR SPRT_TABLE+72	;		
00000000' EF 00000000' EF 9E 0073E	MOVAB	CRD\$GT_UDA_2_EVDLC_STRT_QUAL, -	; 0949
CRD\$AL UDA_2 HDWR SPRT_TABLE+80	;		
00000000' EF 00000000' EF 9E 00749	MOVAB	CRD\$GT_UDA_2_EVDLC_DEV_NAME, -	; 0950
CRD\$AL UDA_2 HDWR SPRT_TABLE+76	;		
00000000' EF 00000000' EF 9E 00754	MOVAB	CRD\$GT_UDA_2_EVDLC_TST_STRT, -	; 0951
CRD\$AL UDA_2 HDWR SPRT_TABLE+84	;		
00000000' EF 00000000' EF 9E 0075F	MOVAB	CRD\$GT_UDA_2_EVDLC_RUNTIME, -	; 0952
CRD\$AL UDA_2 HDWR SPRT_TABLE+88	;		
00000000' EF 00000000' EF 9E 0076A	MOVAB	CRD\$GT_UDA_2_EVDLC_PREP_ERR, -	; 0953
CRD\$AL UDA_2 HDWR SPRT_TABLE+92	;		
00000000' EF 00000000' EF 9E 00775	MOVAB	CRD\$GT_UDA_2_EVDLD, -	; 0955
CRD\$AL UDA_2 HDWR SPRT_TABLE+96	;		
00000000' EF 00000000' EF 9E 00780	MOVAB	CRD\$GT_UDA_2_EVDLD_SET_FLGS, -	; 0956
CRD\$AL UDA_2 HDWR SPRT_TABLE+100	;		
00000000' EF 00000000' EF 9E 0078B	MOVAB	CRD\$GT_UDA_2_EVDLD_SET_EVNT, -	; 0957
CRD\$AL UDA_2 HDWR SPRT_TABLE+104	;		
00000000' EF 00000000' EF 9E 00796	MOVAB	CRD\$GT_UDA_2_EVDLD_STRT_QUAL, -	; 0958
CRD\$AL UDA_2 HDWR SPRT_TABLE+112	;		
00000000' EF 00000000' EF 9E 007A1	MOVAB	CRD\$GT_UDA_2_EVDLD_DEV_NAME, -	; 0959
CRD\$AL UDA_2 HDWR SPRT_TABLE+108	;		

```

00000000' EF 00000000' EF 9E 007AC  MOVAB  CRD$GT_UA_2_EVDLD_TST_STRT, -      ; 0960
CRD$AL_UA_2_HDWR_SPRT_TABLE+116
00000000' EF 00000000' EF 9E 007B7  MOVAB  CRD$GT_UA_2_EVDLD_RUNTIME, -      ; 0961
CRD$AL_UA_2_HDWR_SPRT_TABLE+120
00000000' EF 00000000' EF 9E 007C2  MOVAB  CRD$GT_UA_2_EVDLD_PREP_ERR, -      ; 0962
CRD$AL_UA_2_HDWR_SPRT_TABLE+124
52 D4 007CD  CLRL  DIAG      ; 0977
51 D4 007CF 26$: CLRL  ENTRY      ; 0978
50 6241 DE 007D1 27$: MOVAL  (DIAG)[ENTRY], R0      ; 0980
05 52 D1 007D5  CMPL  DIAG, #5
05 18 007D8  BGEQ  28$
08 51 D1 007DA  CMPL  ENTRY, #8
05 19 007DD  BLSS  29$
50 01 CE 007DF 28$: MNEGL  #1, R0
08 11 007E2  BRB   30$
50 00000000' EF40 9E 007E4 29$: MOVAB  CRD$AL_UA_3_HDWR_SPRT_TABLE[R0], R0
60 D4 007EC 30$: CLRL  (R0)
DF 51 07 F3 007EE  AOBLEQ #7, ENTRY, 27$      ; 0978
FFD3 52 20 00000080 8F F1 007F2  ACBL  #128, #32, DIAG, 26$
00000000' EF 00000000' EF 9E 007FC  MOVAB  CRD$GT_UA_3_EVRLA_0, -      ; 0987
CRD$AL_UA_3_HDWR_SPRT_TABLE
00000000' EF 00000000' EF 9E 00807  MOVAB  CRD$GT_UA_3_EVRLA_0_SET_FLGS, -      ; 0988
CRD$AL_UA_3_HDWR_SPRT_TABLE+4
00000000' EF 00000000' EF 9E 00812  MOVAB  CRD$GT_UA_3_EVRLA_0_SET_EVNT, -      ; 0989
CRD$AL_UA_3_HDWR_SPRT_TABLE+8
00000000' EF 00000000' EF 9E 0081D  MOVAB  CRD$GT_UA_3_EVRLA_0_STRT_QUAL, -      ; 0990
CRD$AL_UA_3_HDWR_SPRT_TABLE+16
00000000' EF 00000000' EF 9E 00828  MOVAB  CRD$GT_UA_3_EVRLA_0_DEV_NAME, -      ; 0991
CRD$AL_UA_3_HDWR_SPRT_TABLE+12
00000000' EF 00000000' EF 9E 00833  MOVAB  CRD$GT_UA_3_EVRLA_0_TST_STRT, -      ; 0992
CRD$AL_UA_3_HDWR_SPRT_TABLE+20
00000000' EF 00000000' EF 9E 0083E  MOVAB  CRD$GT_UA_3_EVRLA_0_RUNTIME, -      ; 0993
CRD$AL_UA_3_HDWR_SPRT_TABLE+24
00000000' EF 00000000' EF 9E 00849  MOVAB  CRD$GT_UA_3_EVRLA_0_PREP_ERR, -      ; 0994
CRD$AL_UA_3_HDWR_SPRT_TABLE+28
00000000' EF 00000000' EF 9E 00854  MOVAB  CRD$GT_UA_3_EVRLA_1, -      ; 0996
CRD$AL_UA_3_HDWR_SPRT_TABLE+32
00000000' EF 00000000' EF 9E 0085F  MOVAB  CRD$GT_UA_3_EVRLA_1_SET_FLGS, -      ; 0997
CRD$AL_UA_3_HDWR_SPRT_TABLE+36
00000000' EF 00000000' EF 9E 0086A  MOVAB  CRD$GT_UA_3_EVRLA_1_SET_EVNT, -      ; 0998
CRD$AL_UA_3_HDWR_SPRT_TABLE+40
00000000' EF 00000000' EF 9E 00875  MOVAB  CRD$GT_UA_3_EVRLA_1_STRT_QUAL, -      ; 0999
CRD$AL_UA_3_HDWR_SPRT_TABLE+48
00000000' EF 00000000' EF 9E 00880  MOVAB  CRD$GT_UA_3_EVRLA_1_DEV_NAME, -      ; 1000
CRD$AL_UA_3_HDWR_SPRT_TABLE+44
00000000' EF 00000000' EF 9E 0088B  MOVAB  CRD$GT_UA_3_EVRLA_1_TST_STRT, -      ; 1001
CRD$AL_UA_3_HDWR_SPRT_TABLE+52
00000000' EF 00000000' EF 9E 00896  MOVAB  CRD$GT_UA_3_EVRLA_1_RUNTIME, -      ; 1002
CRD$AL_UA_3_HDWR_SPRT_TABLE+56
00000000' EF 00000000' EF 9E 008A1  MOVAB  CRD$GT_UA_3_EVRLA_1_PREP_ERR, -      ; 1003
CRD$AL_UA_3_HDWR_SPRT_TABLE+60
00000000' EF 00000000' EF 9E 008AC  MOVAB  CRD$GT_UA_3_EVDLB, -      ; 1005
CRD$AL_UA_3_HDWR_SPRT_TABLE+64
00000000' EF 00000000' EF 9E 008B7  MOVAB  CRD$GT_UA_3_EVDLB_SET_FLGS, -      ; 1006
CRD$AL_UA_3_HDWR_SPRT_TABLE+68

```



```

00000000' EF 00000000' EF 9E 008C2 MOVAB CRD$GT_UDA_3_EVDLB_SET_EVNT, - ; 1007
CRD$AL_UDA_3_HDWR_SPRT_TABLE+72
00000000' EF 00000000' EF 9E 008CD MOVAB CRD$GT_UDA_3_EVDLB_STRT_QUAL, - ; 1008
CRD$AL_UDA_3_HDWR_SPRT_TABLE+80
00000000' EF 00000000' EF 9E 008D8 MOVAB CRD$GT_UDA_3_EVDLB_DEV_NAME, - ; 1009
CRD$AL_UDA_3_HDWR_SPRT_TABLE+76
00000000' EF 00000000' EF 9E 008E3 MOVAB CRD$GT_UDA_3_EVDLB_TST_STRT, - ; 1010
CRD$AL_UDA_3_HDWR_SPRT_TABLE+84
00000000' EF 00000000' EF 9E 008EE MOVAB CRD$GT_UDA_3_EVDLB_RUNTIME, - ; 1011
CRD$AL_UDA_3_HDWR_SPRT_TABLE+88
00000000' EF 00000000' EF 9E 008F9 MOVAB CRD$GT_UDA_3_EVDLB_PREP_ERR, - ; 1012
CRD$AL_UDA_3_HDWR_SPRT_TABLE+92
00000000' EF 00000000' EF 9E 00904 MOVAB CRD$GT_UDA_3_EVDLC, - ; 1014
CRD$AL_UDA_3_HDWR_SPRT_TABLE+96
00000000' EF 00000000' EF 9E 0090F MOVAB CRD$GT_UDA_3_EVDLC_SET_FLGS, - ; 1015
CRD$AL_UDA_3_HDWR_SPRT_TABLE+100
00000000' EF 00000000' EF 9E 0091A MOVAB CRD$GT_UDA_3_EVDLC_SET_EVNT, - ; 1016
CRD$AL_UDA_3_HDWR_SPRT_TABLE+104
00000000' EF 00000000' EF 9E 00925 MOVAB CRD$GT_UDA_3_EVDLC_STRT_QUAL, - ; 1017
CRD$AL_UDA_3_HDWR_SPRT_TABLE+112
00000000' EF 00000000' EF 9E 00930 MOVAB CRD$GT_UDA_3_EVDLC_DEV_NAME, - ; 1018
CRD$AL_UDA_3_HDWR_SPRT_TABLE+108
00000000' EF 00000000' EF 9E 0093B MOVAB CRD$GT_UDA_3_EVDLC_TST_STRT, - ; 1019
CRD$AL_UDA_3_HDWR_SPRT_TABLE+116
00000000' EF 00000000' EF 9E 00946 MOVAB CRD$GT_UDA_3_EVDLC_RUNTIME, - ; 1020
CRD$AL_UDA_3_HDWR_SPRT_TABLE+120
00000000' EF 00000000' EF 9E 00951 MOVAB CRD$GT_UDA_3_EVDLC_PREP_ERR, - ; 1021
CRD$AL_UDA_3_HDWR_SPRT_TABLE+124
00000000' EF 00000000' EF 9E 0095C MOVAB CRD$GT_UDA_3_EVDLD, - ; 1023
CRD$AL_UDA_3_HDWR_SPRT_TABLE+128
00000000' EF 00000000' EF 9E 00967 MOVAB CRD$GT_UDA_3_EVDLD_SET_FLGS, - ; 1024
CRD$AL_UDA_3_HDWR_SPRT_TABLE+132
00000000' EF 00000000' EF 9E 00972 MOVAB CRD$GT_UDA_3_EVDLD_SET_EVNT, - ; 1025
CRD$AL_UDA_3_HDWR_SPRT_TABLE+136
00000000' EF 00000000' EF 9E 0097D MOVAB CRD$GT_UDA_3_EVDLD_STRT_QUAL, - ; 1026
CRD$AL_UDA_3_HDWR_SPRT_TABLE+144
00000000' EF 00000000' EF 9E 00988 MOVAB CRD$GT_UDA_3_EVDLD_DEV_NAME, - ; 1027
CRD$AL_UDA_3_HDWR_SPRT_TABLE+140
00000000' EF 00000000' EF 9E 00993 MOVAB CRD$GT_UDA_3_EVDLD_TST_STRT, - ; 1028
CRD$AL_UDA_3_HDWR_SPRT_TABLE+148
00000000' EF 00000000' EF 9E 0099E MOVAB CRD$GT_UDA_3_EVDLD_RUNTIME, - ; 1029
CRD$AL_UDA_3_HDWR_SPRT_TABLE+152
00000000' EF 00000000' EF 9E 009A9 MOVAB CRD$GT_UDA_3_EVDLD_PREP_ERR, - ; 1030
CRD$AL_UDA_3_HDWR_SPRT_TABLE+156
04 009B4 RET ; 1033

```

; Routine Size: 2485 bytes, Routine Base: CODE + 0000

ZZ-ENSAB-2.0 CRD\$Print_Hardware_Support Routine H 3
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame H3
01-05 CRD\$Print_Hardware_Support Routine 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (26) Page 57

Sequence 651

```
: 1034 1 xSBTTL 'CRD$Print_Hardware_Support Routine'
: 1035 1
: 1036 1 GLOBAL ROUTINE CRD$Print_Hardware_Support : NOVALUE =
: 1037 1
: 1038 1 !++
: 1039 1 ! Functional Description:
: 1040 1 !
: 1041 1 ! Print the contents of the IDC hardware support table.      [04]
: 1042 1 !
: 1043 1 ! Formal Input Parameters:
: 1044 1 !
: 1045 1 ! None
: 1046 1 !
: 1047 1 ! Formal Output Parameters:
: 1048 1 !
: 1049 1 ! None
: 1050 1 !
: 1051 1 ! Side Effects:
: 1052 1 !
: 1053 1 ! None
: 1054 1 !
: 1055 1 ! Completion Codes:
: 1056 1 !
: 1057 1 ! None
: 1058 1 ! --
```

```

; 1059 2 BEGIN      ! Routine CRD$Print_Hardware_Support
; 1060 2 BIND
; 1061 2   Out_HS_Header = $ASCIC ('!/* The IDC Hardware Support Table /*'),
; 1062 2   Out_HS_Table = $ASCIC ('Hardware_Support [!1UL, !1UL]: .!AC.!/'),
; 1063 2   T_Nothing_There = $ASCIC ('');
; 1064 2
; 1065 2   $CRD_Print (Out_HS_Header);
; 1066 2
; 1067 2   INCR HS_Diag FROM 0 TO (CRD$K_IDC_Numb_Diagnostics - 1) DO
; 1068 3   BEGIN
; 1069 3   INCR HS_Entry FROM 0 TO (CRD$K_Numb_Support_Entries - 1) DO
; 1070 4   BEGIN
; P 1071 4   $CRD_Print (
; P 1072 4   Out_HS_Table,
; P 1073 4   .HS_Diag,
; P 1074 4   .HS_Entry,
; P 1075 4   (
; P 1076 4   BIND
; P 1077 4   Ascic_String =
; P 1078 4   (.CRD$AL_IDC_Hdwr_Sprt_Table [.HS_Diag, .HS_Entry])
; P 1079 4   : VECTOR [, BYTE];
; P 1080 4
; P 1081 4   !*
; P 1082 4   ! If the count byte is zero, print nothing is there.
; P 1083 4   ! Else print the Acsic string.
; P 1084 4   !-
; P 1085 4
; P 1086 4   IF (.Ascic_String [0] EQL 0) THEN
; P 1087 4   T_Nothing_There
; P 1088 4   ELSE
; P 1089 4   Ascic_String
; P 1090 4   )
; P 1091 4   );
; 1092 3   END;
; 1093 3
; 1094 3   $CRD_Print ($ASCIC ('!/*'));
; 1095 3   ! Blank line between rows
; 1096 2   END;
; 1097 2
; 1098 2   RETURN;
; 1099 1 END;      ! Routine CRD$Print_Hardware_Support

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2F 21 48 00827 P.AHY: .ASCII \H/* The IDC Hardware S\ ;
20 43 44 49 20 65 68 54 20 2A 2A 2A 2A 2A 2A 00836 ;
    53 20 65 72 61 77 64 72 61 48 00845 ;
2A 2A 20 65 6C 62 61 54 20 74 72 6F 70 70 75 0084F .ASCII \upport Table /*\ ;
2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 0085E ;
    2F 21 2A 0086D ;
6F 70 70 75 53 5F 65 72 61 77 64 72 61 48 26 00870 P.AHZ: .ASCII \&Hardware_Support [!1UL, !1UL]: . AC.!/\ ;
5D 4C 55 31 21 20 2C 4C 55 31 21 5B 20 74 72 0087F ;
    2F 21 2E 43 41 21 2E 20 3A 0088E ;

```

```

2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 14 00897 P.AIA: .ASCII <2>\*****\
2A 2A 2A 2A 2A 2A 2A 008A6
2F 21 02 008AC P.AIB: .ASCII <2>\!/\

```

```

OUT_HS_HEADER= P.AHY
OUT_HS_TABLE= P.AHZ
T_NOTHING_THERE= P.AIA
.EXTRN CRD$PRINT

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

001C 00000 .ENTRY CRD$PRINT_HARDWARE_SUPPORT, Save R2,R3,R4 ; 1036
00000000' EF 9F 00002 PUSHAB OUT_HS_HEADER ; 1065
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT ;
52 D4 00013 CLRL HS_DIAG ; 1067
54 52 05 78 00015 1$: ASHL #5, HS_DIAG, R4 ; 1091
53 D4 00019 CLRL HS_ENTRY ;
50 6443 DE 0001B 2$: MOVAL (R4)[HS_ENTRY], R0 ;
05 52 D1 0001F CMPL HS_DIAG, #5 ;
05 18 00022 BGEQ 3$ ;
08 53 D1 00024 CMPL HS_ENTRY, #8 ;
05 19 00027 BLSS 4$ ;
50 01 CE 00029 3$: MNEGL #1, R0 ;
08 11 0002C BRB 5$ ;
50 00000000' EF40 9E 0002E 4$: MOVAB CRD$AL_IDC_HDWR_SPRT_TABLE[R0], R0 ;
50 60 D0 00036 5$: MOVL (R0), R0 ;
60 95 00039 TSTB (R0) ;
07 12 0003B BNEQ 6$ ;
50 00000000' EF 9E 0003D MOVAB T_NOTHING_THERE, R0 ;
50 DD 00044 6$: PUSHL R0 ;
0C BB 00046 PUSHR #^M<R2,R3> ;
00000000' EF 9F 00048 PUSHAB OUT_HS_TABLE ;
01 DD 0004E PUSHL #1 ;
1A DD 00050 PUSHL #26 ;
00000000G FF 06 FB 00052 CALLS #6, aCRD$PRINT ;
BE 53 07 F3 00059 AOBLEQ #7, HS_ENTRY, 2$ ; 1069
00000000' EF 9F 0005D PUSHAB P.AIB ; 1094
01 DD 00063 PUSHL #1 ;
1A DD 00065 PUSHL #26 ;
00000000G FF 03 FB 00067 CALLS #3, aCRD$PRINT ;
A3 52 04 F3 0006E AOBLEQ #4, HS_DIAG, 1$ ; 1067
04 00072 RET ; 1099

```

; Routine Size: 115 bytes, Routine Base: CODE + 09B5

```

; 1100 1 END      ! End of CRDHDWSUP module
; 1101 0 ELUDOM

```

PSECT SUMMARY

```

; Name      Bytes      Attributes
;
; DATA      2223 NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
; WORK       840  NOVEC, WRT,  RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; CODE      2600 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

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Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib02	155	156 157 158 160 161 162 163 169 170
		171	172	174 175 176 177 183 184 185 186
		188	189	190 191 197 198 199 200 202 203
		204	205	211 212 213 214 216 217 218 219
		230	231	232 233 235 236 237 238 244 245
		246	247	249 250 251 252 281 282 283 284
		286	287	288 289 295 296 297 298 300 301
		302	303	309 310 311 312 314 315 316 317
		323	324	325 326 328 329 330 331 346 347
		348	349	351 352 353 354 360 361 362 363
		365	366	367 368 374 375 376 377 379 380
		381	382	388 389 390 391 393 394 395 396
		402	403	404 405 407 408 409 410 422 423
		424	425	427 428 429 430 436 437 438 439
		441	442	443 444 450 451 452 453 455 456
		457	458	464 465 466 467 469 470 471 472
		486	487	488 489 491 492 493 494 500 501
		502	503	505 506 507 508 514 515 516 517
		519	520	521 522 528 529 530 531 533 534
		535	536	542 543 544 545 547 548 549 550
		556	557	558 559 560 1061 1062 1063 1094
\$CRD_LITERALS	Macro	Lib03	91	
\$CRD_PRINT	Macro	Lib03	1065	1071 1094
\$DS_TYPEDEF	Macro	Lib02	1065	1091 1094
\$EQLST	Macro	Lib04	91	1065 1091 1094
\$ER	Comptime	107		
\$MODULE	Bind	107		
ASCIC_STRING	Bind	1091	1091.	1091a
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal			91
AUTO\$K_EXIT_CONTROL_C	Literal			91
AUTO\$K_EXIT_DUMMY_2	Literal			91
AUTO\$K_EXIT_DUMMY_3	Literal			91
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal			91

Symbol	Type	Defined	Referenced ...
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AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal	91	
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AUTO\$K_EXIT_INTERNAL_ERROR	Literal	91	
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AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal	91	
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AUTO\$K_EXIT_LAST_REASON	Literal	91	91
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AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal	91	
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AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal	91	
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AUTO\$K_EXIT_NOERRORS_PREP	Literal	91	
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CRD\$AL_IDC_HDWR_SPRT_TABLE	Global	123 Lib03e	681 681= 688= 689= 690= 691= 692= 693= 694=
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695=	697=	698=	699=	700=	701=	702=	703=	704=	706=
------	------	------	------	------	------	------	------	------	------

707=	708=	709=	710=	711=	712=	713=	715=	716=	717=
------	------	------	------	------	------	------	------	------	------

718=	719=	720=	721=	722=	724=	725=	726=	727=	728=
------	------	------	------	------	------	------	------	------	------

729=	730=	731=	1091	1091=					
------	------	------	------	-------	--	--	--	--	--

CRD\$AL_LESI_HDWR_SPRT_TABLE	Global	126 Lib03e	746 746= 753= 754= 755= 756= 757= 758= 759=
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760=	762=	763=	764=	765=	766=	767=	768=	769=	
------	------	------	------	------	------	------	------	------	--

CRD\$AL_UDA_0_HDWR_SPRT_TABLE	Global	129 Lib03e	796 796= 803= 804= 805= 806= 807= 808= 809=
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810=	812=	813=	814=	815=	816=	817=	818=	819=	821=
------	------	------	------	------	------	------	------	------	------

822=	823=	824=	825=	826=	827=	828=	830=	831=	832=
------	------	------	------	------	------	------	------	------	------

833=	834=	835=	836=	837=					
------	------	------	------	------	--	--	--	--	--

CRD\$AL_UDA_1_HDWR_SPRT_TABLE	Global	133 Lib03e	855 855= 862= 863= 864= 865= 866= 867= 868=
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869=	871=	872=	873=	874=	875=	876=	877=	878=	880=
------	------	------	------	------	------	------	------	------	------

881=	882=	883=	884=	885=	886=	887=	889=	890=	891=
------	------	------	------	------	------	------	------	------	------

892=	893=	894=	895=	896=	898=	899=	900=	901=	902=
------	------	------	------	------	------	------	------	------	------

903=	904=	905=							
------	------	------	--	--	--	--	--	--	--

CRD\$AL_UDA_2_HDWR_SPRT_TABLE	Global	137 Lib03e	921 921= 928= 929= 930= 931= 932= 933= 934=
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935=	937=	938=	939=	940=	941=	942=	943=	944=	946=
------	------	------	------	------	------	------	------	------	------

947=	948=	949=	950=	951=	952=	953=	955=	956=	957=
------	------	------	------	------	------	------	------	------	------

958=	959=	960=	961=	962=					
------	------	------	------	------	--	--	--	--	--

CRD\$AL_UDA_3_HDWR_SPRT_TABLE	Global	141 Lib03e	980 980= 987= 988= 989= 990= 991= 992= 993=
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994=	996=	997=	998=	999=	1000=	1001=	1002=	1003=	1005=
------	------	------	------	------	-------	-------	-------	-------	-------

1006=	1007=	1008=	1009=	1010=	1011=	1012=	1014=	1015=	1016=
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

1017=	1018=	1019=	1020=	1021=	1023=	1024=	1025=	1026=	1027=
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

1028=	1029=	1030=							
-------	-------	-------	--	--	--	--	--	--	--

CRD\$BUILD_SUPPORT_TABLE	GlobRout	563 Lib03e	84f
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CRD\$GA_HDWR_SPRT_TABLE	Global	117 Lib03e	117=
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CRD\$GB_BASE_SYSTEM	Global	111 Lib03e	111=
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CRD\$GT_DS_LOAD_COM	External	Lib03	
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GlobBind	556		
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CRD\$GT_DS_SELECT_COM	External	Lib03	
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GlobBind	559		
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CRD\$GT_DS_SET_EVENT_COM	External	Lib03	
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GlobBind	558		
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CRD\$GT_DS_SET_FLAGS_COM	External	Lib03	
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GlobBind	557		
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CRD\$GT_DS_START_COM	External	Lib03	
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GlobBind	560		
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CRD\$GT_IDC_EVDLB	Bind	183	706a
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CRD\$GT_IDC_EVDLB_DEV_NAME	Bind	186	710a
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CRD\$GT_IDC_EVDLB_PREP_ERR	Bind	191	713a
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CRD\$GT_IDC_EVDLB_RUNTIME	Bind	190	712a
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CRD\$GT_IDC_EVDLB_SET_EVNT	Bind	185	708a
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CRD\$GT_IDC_EVDLB_SET_FLGS	Bind	184	707a
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CRD\$GT_IDC_EVDLB_STRT_QUAL	Bind	188	709a
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CRD\$GT_IDC_EVDLB_TST_STRT	Bind	189	711a
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Symbol	Type	Defined	Referenced ...
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CRD\$GT_IDC_EVDLC_Bind	197	715a	
CRD\$GT_IDC_EVDLC_DEV_NAME Bind	200	719a	
CRD\$GT_IDC_EVDLC_PREP_ERR Bind	205	722a	
CRD\$GT_IDC_EVDLC_RUNTIME Bind	204	721a	
CRD\$GT_IDC_EVDLC_SET_EVNT Bind	199	717a	
CRD\$GT_IDC_EVDLC_SET_FLGS Bind	198	716a	
CRD\$GT_IDC_EVDLC_STRT_QUAL Bind	202	718a	
CRD\$GT_IDC_EVDLC_TST_STRT Bind	203	720a	
CRD\$GT_IDC_EVDLD_Bind	211	724a	
CRD\$GT_IDC_EVDLD_DEV_NAME Bind	214	728a	
CRD\$GT_IDC_EVDLD_PREP_ERR Bind	219	731a	
CRD\$GT_IDC_EVDLD_RUNTIME Bind	218	730a	
CRD\$GT_IDC_EVDLD_SET_EVNT Bind	213	726a	
CRD\$GT_IDC_EVDLD_SET_FLGS Bind	212	725a	
CRD\$GT_IDC_EVDLD_STRT_QUAL Bind	216	727a	
CRD\$GT_IDC_EVDLD_TST_STRT Bind	217	729a	
CRD\$GT_IDC_EVRAD_0_Bind	155	688a	
CRD\$GT_IDC_EVRAD_0_DEV_NAME Bind	158	692a	
CRD\$GT_IDC_EVRAD_0_PREP_ERR Bind	163	695a	
CRD\$GT_IDC_EVRAD_0_RUNTIME Bind	162	694a	
CRD\$GT_IDC_EVRAD_0_SET_EVNT Bind	157	690a	
CRD\$GT_IDC_EVRAD_0_SET_FLGS Bind	156	689a	
CRD\$GT_IDC_EVRAD_0_STRT_QUAL Bind	160	691a	
CRD\$GT_IDC_EVRAD_0_TST_STRT Bind	161	693a	
CRD\$GT_IDC_EVRAD_1_Bind	169	697a	
CRD\$GT_IDC_EVRAD_1_DEV_NAME Bind	172	701a	
CRD\$GT_IDC_EVRAD_1_PREP_ERR Bind	177	704a	
CRD\$GT_IDC_EVRAD_1_RUNTIME Bind	176	703a	
CRD\$GT_IDC_EVRAD_1_SET_EVNT Bind	171	699a	
CRD\$GT_IDC_EVRAD_1_SET_FLGS Bind	170	698a	
CRD\$GT_IDC_EVRAD_1_STRT_QUAL Bind	174	700a	
CRD\$GT_IDC_EVRAD_1_TST_STRT Bind	175	702a	
CRD\$GT_LESI_EVRMB_0_Bind	230	753a	
CRD\$GT_LESI_EVRMB_0_DEV_NAME Bind	233	757a	
CRD\$GT_LESI_EVRMB_0_PREP_ERR Bind	238	760a	
CRD\$GT_LESI_EVRMB_0_RUNTIME Bind	237	759a	
CRD\$GT_LESI_EVRMB_0_SET_EVNT Bind	232	755a	
CRD\$GT_LESI_EVRMB_0_SET_FLGS Bind	231	754a	
CRD\$GT_LESI_EVRMB_0_STRT_QUAL Bind	235	756a	
CRD\$GT_LESI_EVRMB_0_TST_STRT Bind	236	758a	
CRD\$GT_LESI_EVRMB_1_Bind	244	762a	
CRD\$GT_LESI_EVRMB_1_DEV_NAME Bind	247	766a	
CRD\$GT_LESI_EVRMB_1_PREP_ERR Bind	252	769a	
CRD\$GT_LESI_EVRMB_1_RUNTIME Bind	251	768a	
CRD\$GT_LESI_EVRMB_1_SET_EVNT Bind	246	764a	
CRD\$GT_LESI_EVRMB_1_SET_FLGS Bind	245	763a	
CRD\$GT_LESI_EVRMB_1_STRT_QUAL Bind	249	765a	
CRD\$GT_LESI_EVRMB_1_TST_STRT Bind	250	767a	
CRD\$GT_UDA_0_EVDLB_Bind	295	812a	
CRD\$GT_UDA_0_EVDLB_DEV_NAME Bind	298	816a	
CRD\$GT_UDA_0_EVDLB_PREP_ERR Bind	303	819a	
CRD\$GT_UDA_0_EVDLB_RUNTIME Bind	302	818a	
CRD\$GT_UDA_0_EVDLB_SET_EVNT Bind	297	814a	

Symbol	Type	Defined	Referenced ...
CRD\$GT-UDA_0-EVDLB-SET-FLGS Bind		296	813a
CRD\$GT-UDA_0-EVDLB-STRT-QUAL Bind		300	815a
CRD\$GT-UDA_0-EVDLB-TST-STRT Bind		301	817a
CRD\$GT-UDA_0-EVDLC Bind	309	821a	
CRD\$GT-UDA_0-EVDLC-DEV-NAME Bind		312	825a
CRD\$GT-UDA_0-EVDLC-PREP-ERR Bind		317	828a
CRD\$GT-UDA_0-EVDLC-RUNTIME Bind		316	827a
CRD\$GT-UDA_0-EVDLC-SET-EVNT Bind		311	823a
CRD\$GT-UDA_0-EVDLC-SET-FLGS Bind		310	822a
CRD\$GT-UDA_0-EVDLC-STRT-QUAL Bind		314	824a
CRD\$GT-UDA_0-EVDLC-TST-STRT Bind		315	826a
CRD\$GT-UDA_0-EVDLD Bind	323	830a	
CRD\$GT-UDA_0-EVDLD-DEV-NAME Bind		326	834a
CRD\$GT-UDA_0-EVDLD-PREP-ERR Bind		331	837a
CRD\$GT-UDA_0-EVDLD-RUNTIME Bind		330	836a
CRD\$GT-UDA_0-EVDLD-SET-EVNT Bind		325	832a
CRD\$GT-UDA_0-EVDLD-SET-FLGS Bind		324	831a
CRD\$GT-UDA_0-EVDLD-STRT-QUAL Bind		328	833a
CRD\$GT-UDA_0-EVDLD-TST-STRT Bind		329	835a
CRD\$GT-UDA_0-EVRLA_0 Bind	281	803a	
CRD\$GT-UDA_0-EVRLA_0-DEV-NAME Bind		284	807a
CRD\$GT-UDA_0-EVRLA_0-PREP-ERR Bind		289	810a
CRD\$GT-UDA_0-EVRLA_0-RUNTIME Bind		288	809a
CRD\$GT-UDA_0-EVRLA_0-SET-EVNT Bind		283	805a
CRD\$GT-UDA_0-EVRLA_0-SET-FLGS Bind		282	804a
CRD\$GT-UDA_0-EVRLA_0-STRT-QUAL Bind		286	806a
CRD\$GT-UDA_0-EVRLA_0-TST-STRT Bind		287	808a
CRD\$GT-UDA_1-EVDLB Bind	374	880a	
CRD\$GT-UDA_1-EVDLB-DEV-NAME Bind		377	884a
CRD\$GT-UDA_1-EVDLB-PREP-ERR Bind		382	887a
CRD\$GT-UDA_1-EVDLB-RUNTIME Bind		381	886a
CRD\$GT-UDA_1-EVDLB-SET-EVNT Bind		376	882a
CRD\$GT-UDA_1-EVDLB-SET-FLGS Bind		375	881a
CRD\$GT-UDA_1-EVDLB-STRT-QUAL Bind		379	883a
CRD\$GT-UDA_1-EVDLB-TST-STRT Bind		380	885a
CRD\$GT-UDA_1-EVDLC Bind	388	889a	
CRD\$GT-UDA_1-EVDLC-DEV-NAME Bind		391	893a
CRD\$GT-UDA_1-EVDLC-PREP-ERR Bind		396	896a
CRD\$GT-UDA_1-EVDLC-RUNTIME Bind		395	895a
CRD\$GT-UDA_1-EVDLC-SET-EVNT Bind		390	891a
CRD\$GT-UDA_1-EVDLC-SET-FLGS Bind		389	890a
CRD\$GT-UDA_1-EVDLC-STRT-QUAL Bind		393	892a
CRD\$GT-UDA_1-EVDLC-TST-STRT Bind		394	894a
CRD\$GT-UDA_1-EVDLD Bind	402	898a	
CRD\$GT-UDA_1-EVDLD-DEV-NAME Bind		405	902a
CRD\$GT-UDA_1-EVDLD-PREP-ERR Bind		410	905a
CRD\$GT-UDA_1-EVDLD-RUNTIME Bind		409	904a
CRD\$GT-UDA_1-EVDLD-SET-EVNT Bind		404	900a
CRD\$GT-UDA_1-EVDLD-SET-FLGS Bind		403	899a
CRD\$GT-UDA_1-EVDLD-STRT-QUAL Bind		407	901a
CRD\$GT-UDA_1-EVDLD-TST-STRT Bind		408	903a
CRD\$GT-UDA_1-EVRLA_0 Bind	346	862a	
CRD\$GT-UDA_1-EVRLA_0-DEV-NAME Bind		349	866a

Symbol	Type	Defined	Referenced ...
CRD\$GT_UDA_1_EVRLA_0_PREP_ERR Bind		354	869a
CRD\$GT_UDA_1_EVRLA_0_RUNTIME Bind		353	868a
CRD\$GT_UDA_1_EVRLA_0_SET_EVNT Bind		348	864a
CRD\$GT_UDA_1_EVRLA_0_SET_FLGS Bind		347	863a
CRD\$GT_UDA_1_EVRLA_0_STRT_QUAL Bind		351	865a
CRD\$GT_UDA_1_EVRLA_0_TST_STRT Bind		352	867a
CRD\$GT_UDA_1_EVRLA_1 Bind	360	871a	
CRD\$GT_UDA_1_EVRLA_1_DEV_NAME Bind		363	875a
CRD\$GT_UDA_1_EVRLA_1_PREP_ERR Bind		368	878a
CRD\$GT_UDA_1_EVRLA_1_RUNTIME Bind		367	877a
CRD\$GT_UDA_1_EVRLA_1_SET_EVNT Bind		362	873a
CRD\$GT_UDA_1_EVRLA_1_SET_FLGS Bind		361	872a
CRD\$GT_UDA_1_EVRLA_1_STRT_QUAL Bind		365	874a
CRD\$GT_UDA_1_EVRLA_1_TST_STRT Bind		366	876a
CRD\$GT_UDA_2_EVDLB Bind	436	937a	
CRD\$GT_UDA_2_EVDLB_DEV_NAME Bind		439	941a
CRD\$GT_UDA_2_EVDLB_PREP_ERR Bind		444	944a
CRD\$GT_UDA_2_EVDLB_RUNTIME Bind		443	943a
CRD\$GT_UDA_2_EVDLB_SET_EVNT Bind		438	939a
CRD\$GT_UDA_2_EVDLB_SET_FLGS Bind		437	938a
CRD\$GT_UDA_2_EVDLB_STRT_QUAL Bind		441	940a
CRD\$GT_UDA_2_EVDLB_TST_STRT Bind		442	942a
CRD\$GT_UDA_2_EVDLC Bind	450	946a	
CRD\$GT_UDA_2_EVDLC_DEV_NAME Bind		453	950a
CRD\$GT_UDA_2_EVDLC_PREP_ERR Bind		458	953a
CRD\$GT_UDA_2_EVDLC_RUNTIME Bind		457	952a
CRD\$GT_UDA_2_EVDLC_SET_EVNT Bind		452	948a
CRD\$GT_UDA_2_EVDLC_SET_FLGS Bind		451	947a
CRD\$GT_UDA_2_EVDLC_STRT_QUAL Bind		455	949a
CRD\$GT_UDA_2_EVDLC_TST_STRT Bind		456	951a
CRD\$GT_UDA_2_EVDLD Bind	464	955a	
CRD\$GT_UDA_2_EVDLD_DEV_NAME Bind		467	959a
CRD\$GT_UDA_2_EVDLD_PREP_ERR Bind		472	962a
CRD\$GT_UDA_2_EVDLD_RUNTIME Bind		471	961a
CRD\$GT_UDA_2_EVDLD_SET_EVNT Bind		466	957a
CRD\$GT_UDA_2_EVDLD_SET_FLGS Bind		465	956a
CRD\$GT_UDA_2_EVDLD_STRT_QUAL Bind		469	958a
CRD\$GT_UDA_2_EVDLD_TST_STRT Bind		470	960a
CRD\$GT_UDA_2_EVRLA_0 Bind	422	928a	
CRD\$GT_UDA_2_EVRLA_0_DEV_NAME Bind		425	932a
CRD\$GT_UDA_2_EVRLA_0_PREP_ERR Bind		430	935a
CRD\$GT_UDA_2_EVRLA_0_RUNTIME Bind		429	934a
CRD\$GT_UDA_2_EVRLA_0_SET_EVNT Bind		424	930a
CRD\$GT_UDA_2_EVRLA_0_SET_FLGS Bind		423	929a
CRD\$GT_UDA_2_EVRLA_0_STRT_QUAL Bind		427	931a
CRD\$GT_UDA_2_EVRLA_0_TST_STRT Bind		428	933a
CRD\$GT_UDA_3_EVDLB Bind	514	1005a	
CRD\$GT_UDA_3_EVDLB_DEV_NAME Bind		517	1009a
CRD\$GT_UDA_3_EVDLB_PREP_ERR Bind		522	1012a
CRD\$GT_UDA_3_EVDLB_RUNTIME Bind		521	1011a
CRD\$GT_UDA_3_EVDLB_SET_EVNT Bind		516	1007a
CRD\$GT_UDA_3_EVDLB_SET_FLGS Bind		515	1006a
CRD\$GT_UDA_3_EVDLB_STRT_QUAL Bind		519	1008a

Symbol	Type	Defined	Referenced ...
CRD\$GT-UDA-3-EVDLB-TST-STRT Bind		520	1010a
CRD\$GT-UDA-3-EVDLC Bind	528	1014a	
CRD\$GT-UDA-3-EVDLC-DEV-NAME Bind		531	1018a
CRD\$GT-UDA-3-EVDLC-PREP-ERR Bind		536	1021a
CRD\$GT-UDA-3-EVDLC-RUNTIME Bind		535	1020a
CRD\$GT-UDA-3-EVDLC-SET-EVNT Bind		530	1016a
CRD\$GT-UDA-3-EVDLC-SET-FLGS Bind		529	1015a
CRD\$GT-UDA-3-EVDLC-STRT-QUAL Bind		533	1017a
CRD\$GT-UDA-3-EVDLC-TST-STRT Bind		534	1019a
CRD\$GT-UDA-3-EVDLD Bind	542	1023a	
CRD\$GT-UDA-3-EVDLD-DEV-NAME Bind		545	1027a
CRD\$GT-UDA-3-EVDLD-PREP-ERR Bind		550	1030a
CRD\$GT-UDA-3-EVDLD-RUNTIME Bind		549	1029a
CRD\$GT-UDA-3-EVDLD-SET-EVNT Bind		544	1025a
CRD\$GT-UDA-3-EVDLD-SET-FLGS Bind		543	1024a
CRD\$GT-UDA-3-EVDLD-STRT-QUAL Bind		547	1026a
CRD\$GT-UDA-3-EVDLD-TST-STRT Bind		548	1028a
CRD\$GT-UDA-3-EVRLA-0 Bind	486	987a	
CRD\$GT-UDA-3-EVRLA-0-DEV-NAME Bind		489	991a
CRD\$GT-UDA-3-EVRLA-0-PREP-ERR Bind		494	994a
CRD\$GT-UDA-3-EVRLA-0-RUNTIME Bind		493	993a
CRD\$GT-UDA-3-EVRLA-0-SET-EVNT Bind		488	989a
CRD\$GT-UDA-3-EVRLA-0-SET-FLGS Bind		487	988a
CRD\$GT-UDA-3-EVRLA-0-STRT-QUAL Bind		491	990a
CRD\$GT-UDA-3-EVRLA-0-TST-STRT Bind		492	992a
CRD\$GT-UDA-3-EVRLA-1 Bind	500	996a	
CRD\$GT-UDA-3-EVRLA-1-DEV-NAME Bind		503	1000a
CRD\$GT-UDA-3-EVRLA-1-PREP-ERR Bind		508	1003a
CRD\$GT-UDA-3-EVRLA-1-RUNTIME Bind		507	1002a
CRD\$GT-UDA-3-EVRLA-1-SET-EVNT Bind		502	998a
CRD\$GT-UDA-3-EVRLA-1-SET-FLGS Bind		501	997a
CRD\$GT-UDA-3-EVRLA-1-STRT-QUAL Bind		505	999a
CRD\$GT-UDA-3-EVRLA-1-TST-STRT Bind		506	1001a
CRD\$K-ACTION-EQL-DO-NOTHING Literal		91	
CRD\$K-ACTION-RANGE-ERROR Literal		91	
CRD\$K-ADVANCE-DIAGNOSTIC Literal		91	
CRD\$K-ADVANCE-GENERAL-COM Literal		91	
CRD\$K-ADVANCE-STATE Literal	91		
CRD\$K-ALLOCATION-ERROR Literal		91	
CRD\$K-ASSIGN-PTABLE-PTRS Literal		91	
CRD\$K-AUTOSIZER-ERROR Literal	91		
CRD\$K-AUTOSIZER-SET-FLAGS Literal		91	
CRD\$K-BAD-ACTION-NUMBER Literal		91	
CRD\$K-BAD-TYPECODE-ERROR Literal		91	
CRD\$K-BASE-SYSTEM-IDC Literal	91		
CRD\$K-BASE-SYSTEM-LESI Literal		91	
CRD\$K-BASE-SYSTEM-NULL Literal	91	111	
CRD\$K-BASE-SYSTEM-UDA-0 Literal		91	
CRD\$K-BASE-SYSTEM-UDA-1 Literal		91	
CRD\$K-BASE-SYSTEM-UDA-2 Literal		91	
CRD\$K-BASE-SYSTEM-UDA-3 Literal		91	
CRD\$K-CRD-INITIALIZATION Literal		91	
CRD\$K-CREATE-HST Literal		91	

Symbol	Type	Defined	Referenced	...
CRD\$K_DATA_LENGTH_ERROR	Literal	91		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	91		
CRD\$K_DDB_BLINK	Literal	91		
CRD\$K_DDB_FLINK	Literal	91		
CRD\$K_DDB_LAST_ENTRY	Literal	91		
CRD\$K_DDB_MEMORY_SIZE	Literal	91		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	91		
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	91		
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	91		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	91		
CRD\$K_DDB_PTABLE_ENTRY	Literal	91		
CRD\$K_DDB_STATUS	Literal	91		
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	91		
CRD\$K_DEVICE_NAME	Unbound	636		
Literal	91	692	701	710 719 728 757 766 807 816 825
		834 866 875	884 893	902 932 941 950 959
		991 1000 1009	1018 1027	
CRD\$K_DIAGNOSTIC_ERROR	Literal	91		
CRD\$K_DIAGNOSTIC_NAME	Unbound	597		
Literal	91	688 697	706 715 724 753 762 803 812 821	
		830 862 871	880 889 898 928 937 946 955	
		987 996 1005	1014 1023	
CRD\$K_DONE_GENERAL_COMS	Literal	91		
CRD\$K_DO_NOTHING	Literal	91		
CRD\$K_DUMMY_10	Literal	91		
CRD\$K_DUMMY_11	Literal	91		
CRD\$K_DUMMY_12	Literal	91		
CRD\$K_DUMMY_13	Literal	91		
CRD\$K_DUMMY_3	Literal	91		
CRD\$K_DUMMY_4	Literal	91		
CRD\$K_DUMMY_5	Literal	91		
CRD\$K_DUMMY_6	Literal	91		
CRD\$K_DUMMY_7	Literal	91		
CRD\$K_DUMMY_8	Literal	91		
CRD\$K_DUMMY_9	Literal	91		
CRD\$K_EXIT_CRD	Literal	91		
CRD\$K_HOOK_POINT	Literal	91		
CRD\$K_HS_INTERNAL_ERROR	Literal	91		
CRD\$K_IDC_EVDLB	Literal	91	706 707 708 709 710 711 712 713	
CRD\$K_IDC_EVDLC	Literal	91	715 716 717 718 719 720 721 722	
CRD\$K_IDC_EVDLD	Literal	91	724 725 726 727 728 729 730 731	
CRD\$K_IDC_EVRAD_0	Literal	91	688 689 690 691 692 693 694 695	
CRD\$K_IDC_EVRAD_1	Literal	91	697 698 699 700 701 702 703 704	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	91	678	
CRD\$K_IDC_NUMB_DIAGNOSTICS	Literal	Lib03	124 1067	
CRD\$K_INTERNAL_ERROR	Literal	91		
CRD\$K_LAST_ACTION_ROUTINE	Literal	91		
CRD\$K_LAST_ENTRY	Literal	91	679 744 794 853 919 978	
CRD\$K_LAST_FUNCTION	Literal	91		
CRD\$K_LAST_HOOK_POINT	Literal	91		
CRD\$K_LAST_INTERNAL_ERROR	Literal	91		
CRD\$K_LAST_TYPE	Literal	91		
CRD\$K_LESI_ENWCA	Literal	91		

Symbol	Type	Defined	Referenced	...
CRD\$K_LESI_EVRMB_0	Literal	91	753	754
CRD\$K_LESI_EVRMB_1	Literal	91	762	763
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	91	743	
CRD\$K_LESI_NUMB_DIAGNOSTICS	Literal	Lib03	127	
CRD\$K_LEVEL_4_PASSED	Literal	91		
CRD\$K_LOAD_AUTOSIZER	Literal	91		
CRD\$K_LOAD_ERROR	Literal	91		
CRD\$K_LOAD_GENERAL_COM	Literal	91		
CRD\$K_LOAD_LOAD_COM	Literal	91		
CRD\$K_LOAD_SELECT_COM	Literal	91		
CRD\$K_LOAD_SET_EVENT_COM	Literal	91		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	91		
CRD\$K_LOAD_START_COM	Literal	91		
CRD\$K_LOAD_SUP_FILE	Literal	91		
CRD\$K_MM_INTERNAL_ERROR	Literal	91		
CRD\$K_NEW_LINE	Literal	91		
CRD\$K_NUMB_SUPPORT_ENTRIES	Literal	Lib03	124	127
CRD\$K_PREPARATION_ERROR	Literal	91		
CRD\$K_PREPARATION_ERROR_TEXT	Unbound		656	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	91	695	704
CRD\$K_PREPARATION_ERROR_TEXT	Literal	837	869	878
CRD\$K_PREPARATION_ERROR_TEXT	Literal	994	1003	1012
CRD\$K_RUNTIME	Unbound		646	
CRD\$K_RUNTIME	Literal	91	694	703
CRD\$K_RUNTIME	Literal	836	868	877
CRD\$K_RUNTIME	Literal	993	1002	1011
CRD\$K_SAME_LINE	Literal	91		
CRD\$K_SET_EVENT_ARGS	Unbound		617	
CRD\$K_SET_EVENT_ARGS	Literal	91	690	699
CRD\$K_SET_EVENT_ARGS	Literal	832	864	873
CRD\$K_SET_EVENT_ARGS	Literal	989	998	1007
CRD\$K_SET_FLAGS_ARGS	Unbound		607	
CRD\$K_SET_FLAGS_ARGS	Literal	91	689	698
CRD\$K_SET_FLAGS_ARGS	Literal	831	863	872
CRD\$K_SET_FLAGS_ARGS	Literal	988	997	1006
CRD\$K_SET_UP_DIAGNOSTIC	Literal	91		
CRD\$K_START	Literal	91		
CRD\$K_START_AUTOSIZER	Literal	91		
CRD\$K_START_ERROR	Literal	91		
CRD\$K_START_QUALIFIERS	Unbound		627	
CRD\$K_START_QUALIFIERS	Literal	91	691	700
CRD\$K_START_QUALIFIERS	Literal	833	865	874
CRD\$K_START_QUALIFIERS	Literal	990	999	1008
CRD\$K_STAR_LINE	Literal	91		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	91		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	91		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	91		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	91		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	91		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	91		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	91		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	91		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	91		

Symbol	Type	Defined	Referenced	...
CRD\$K_UA_3_EVDLB	Literal	91 1005	1006	1007 1008 1009 1010 1011 1012
CRD\$K_UA_3_EVDLC	Literal	91 1014	1015	1016 1017 1018 1019 1020 1021
CRD\$K_UA_3_EVDLD	Literal	91 1023	1024	1025 1026 1027 1028 1029 1030
CRD\$K_UA_3_EVRLA_0	Literal	91 987	988	989 990 991 992 993 994
CRD\$K_UA_3_EVRLA_1	Literal	91 996	997	998 999 1000 1001 1002 1003
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	91 977		
CRD\$K_UA_3_NUMB_DIAGNOSTICS	Literal	Lib03 142		
CRD\$PRINT	External	Lib03 1065ac 1091ac 1094ac		
CRD\$PRINT_HARDWARE_SUPPORT	GlobRout	1036 Lib03e	87f	
DIAG	MacrForm	592 597 598		
MacrForm		602 607 608		
MacrForm		612 617 618		
MacrForm		622 627 628		
MacrForm		631 636 637		
MacrForm		641 646 647		
MacrForm		651 656 657		
MacrForm		661 666 667		
Local		678 681.		
Local		743 746.		
Local		793 796.		
Local		852 855.		
Local		918 921.		
Local		977 980.		
DS\$K_PRINTB	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_PRINTF	Literal	1065 1065		
Literal		1091 1091		
Literal		1094 1094		
DS\$K_PRINTI	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_PRINTX	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_TYPE_ABORT_PROGRAM	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_TYPE_ABORT_TEST	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_TYPE_COMMAND_ERR	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_TYPE_COMMAND_OUT	Literal	1065		
Literal		1091		
Literal		1094		
DS\$K_TYPE_CRD_AUTOTEST	Literal	1065 1065		
Literal		1091 1091		
Literal		1094 1094		
DS\$K_TYPE_DS_PROMPT	Literal	1065		
Literal		1091		
Literal		1094		

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 CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 B1 19-Sep-1985 Fiche 4 Frame H4
 01-05 CRD\$Print_Hardware_Support Routine 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (28)

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Symbol Type Defined Referenced ...

```

DS$K_TYPE_DS_START Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRDEV Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRHARD Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERROR_BODY Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERROR_END Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRPREP Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRSOFT Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRSUP Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERRSYS Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_ERR_HALT Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_EXCEPTION Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_EXCEPTION_HEAD Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_FIRST_PASS Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_GENERAL Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_GENERAL_ERROR Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_NO_TESTS Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_PARAM_ERROR Literal 1065
  Literal 1091
  Literal 1094
DS$K_TYPE_PROGRAM_END Literal 1065
  Literal 1091
  
```

Symbol	Type	Defined	Referenced	...
DS\$K_TYPE_PROGRAM_INFO	Literal	1094	1065	
DS\$K_TYPE_PROGRAM_START	Literal	1091	1065	
DS\$K_TYPE_QIO_INVADP	Literal	1094	1065	
DS\$K_TYPE_QIO_NODRIVER	Literal	1091	1065	
DS\$K_TYPE_QIO_WRONGVER	Literal	1094	1065	
DS\$K_TYPE_SCRIPT_ECHO	Literal	1091	1065	
DS\$K_TYPE_SCRIPT_PNF	Literal	1094	1065	
DS\$K_TYPE_SCRIPT_PROMPT	Literal	1091	1065	
DS\$K_TYPE_SCRIPT_SKIP	Literal	1094	1065	
DS\$K_TYPE_SEQUENCE_ERROR	Literal	1091	1065	
DS\$K_TYPE_START_ERR	Literal	1094	1065	
DS\$K_TYPE_START_LIST	Literal	1091	1065	
DS\$K_TYPE_SUMMARY	Literal	1094	1065	
DS\$K_TYPE_USER_PROMPT	Literal	1091	1065	
ENTRY	Local	679	681.	
	Local	744	746.	
	Local	794	796.	
	Local	853	855.	
	Local	919	921.	
	Local	978	980.	
GET1ST	Macro	Lib04	91 1065 1091 1094	
GET2ND	Unbound		91 1065 1091 1094	
HARDWARE_SUPPORT_STRUCTURE	Structur	Lib03	124 127 130 134 138 142	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	91		

Symbol	Type	Defined	Referenced ...
HSSK_ACTION_ADVANCE_GENERAL_COM	Literal	91	
HSSK_ACTION_ADVANCE_STATE	Literal	91	
HSSK_ACTION_CHANGE_TABLE	Literal	91	
HSSK_ACTION_DIAGNOSTIC_ERROR	Literal	91	
HSSK_ACTION_DONE_GENERAL_COMS	Literal	91	
HSSK_ACTION_DO_NOTHING	Literal	91	
HSSK_ACTION_DUMMY_3	Literal	91	
HSSK_ACTION_DUMMY_4	Literal	91	
HSSK_ACTION_DUMMY_5	Literal	91	
HSSK_ACTION_DUMMY_6	Literal	91	
HSSK_ACTION_INIT_HS	Literal	91	
HSSK_ACTION_INTERNAL_ERROR	Literal	91	
HSSK_ACTION_LAST_ACTION	Literal	91	
HSSK_ACTION_LOAD_ERROR	Literal	91	
HSSK_ACTION_LOAD_GENERAL_COM	Literal	91	
HSSK_ACTION_LOAD_LOAD_COM	Literal	91	
HSSK_ACTION_LOAD_SELECT_COM	Literal	91	
HSSK_ACTION_LOAD_SET_EVENT_COM	Literal	91	
HSSK_ACTION_LOAD_SET_FLAGS_COM	Literal	91	
HSSK_ACTION_LOAD_START_COM	Literal	91	
HSSK_ACTION_PREPARATION_ERROR	Literal	91	
HSSK_ACTION_START_ERROR	Literal	91	
HSSK_STATE_ADVANCE_DIAGNOSTIC	Literal	91	
HSSK_STATE_ADVANCE_GENERAL_COM	Literal	91	
HSSK_STATE_CHANGE_TABLE	Literal	91	
HSSK_STATE_DIAGNOSTIC_ERROR	Literal	91	
HSSK_STATE_DIAGNOSTIC_RUNNING	Literal	91	
HSSK_STATE_DONE_GENERAL_COMS	Literal	91	
HSSK_STATE_DUMMY_1	Literal	91	
HSSK_STATE_DUMMY_2	Literal	91	
HSSK_STATE_DUMMY_3	Literal	91	
HSSK_STATE_DUMMY_4	Literal	91	
HSSK_STATE_DUMMY_6	Literal	91	
HSSK_STATE_INIT_HS	Literal	91	
HSSK_STATE_INTERNAL_ERROR	Literal	91	
HSSK_STATE_LAST_STATE	Literal	91	
HSSK_STATE_LOAD_ERROR	Literal	91	
HSSK_STATE_LOAD_GENERAL_COM	Literal	91	
HSSK_STATE_LOAD_LOAD_COM	Literal	91	
HSSK_STATE_LOAD_SELECT_COM	Literal	91	
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	91	
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	91	
HSSK_STATE_LOAD_START_COM	Literal	91	
HSSK_STATE_PREPARATION_ERROR	Literal	91	
HSSK_STATE_START_ERROR	Literal	91	
HS_DIAG	Local	1067	1091
HS_ENTRY	Local	1069	1091
INSERT_DEV_NAME	Macro	631	692 701 710 719 728 757 766 807 816 825
		834 866 875 884 893 902 932 941 950 959	
		991 1000 1009 1018 1027	
INSERT_DIAGNOSTIC_NAME	Macro	592 688 697 706 715 724 753 762 803 812 821	
		830 862 871 880 889 898 928 937 946 955	
		987 996 1005 1014 1023	

Symbol	Type	Defined	Referenced	...
INSERT_PREP_ERR	Macro	651	695	704
837	869	878	887	896
994	1003	1012	1021	1030
INSERT_RUNTIME	Macro	641	694	703
836	868	877	886	895
993	1002	1011	1020	1029
INSERT_SET_EVNT	Macro	612	690	699
832	864	873	882	891
989	998	1007	1016	1025
INSERT_SET_FLGS	Macro	602	689	698
831	863	872	881	890
988	997	1006	1015	1024
INSERT_STRT_QUAL	Macro	622	691	700
833	865	874	883	892
990	999	1008	1017	1026
INSERT_TST_STRT	Macro	661	693	702
835	867	876	885	894
992	1001	1010	1019	1028
MEN\$K_HS_STATE_TABLE	Literal	91		
MEN\$K_MM_STATE_TABLE	Literal	91		
MEN\$K_TQ_STATE_TABLE	Literal	91		
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	91		
MEN\$K_EXIT_INTERNAL_ERROR	Literal	91		
MEN\$K_EXIT_LAST_REASON	Literal	91		
MEN\$K_EXIT_OPERATOR_ABORT	Literal	91		
MEN\$K_EXIT_OPERATOR_STOP	Literal	91		
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	91		
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	91		
MM\$K_ACTION_ADVANCE_STATE	Literal	91		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	91		
MM\$K_ACTION_BUILD_DDBS	Literal	91		
MM\$K_ACTION_BUILD_HSTS	Literal	91		
MM\$K_ACTION_CHANGE_TABLE	Literal	91		
MM\$K_ACTION_DONE_INITS	Literal	91		
MM\$K_ACTION_DO_NOTHING	Literal	91		
MM\$K_ACTION_DUMMY_3	Literal	91		
MM\$K_ACTION_DUMMY_4	Literal	91		
MM\$K_ACTION_DUMMY_5	Literal	91		
MM\$K_ACTION_DUMMY_6	Literal	91		
MM\$K_ACTION_DUMMY_7	Literal	91		
MM\$K_ACTION_DUMMY_8	Literal	91		
MM\$K_ACTION_INTERNAL_ERROR	Literal	91		
MM\$K_ACTION_LAST_ACTION	Literal	91		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	91		
MM\$K_ACTION_MENU_PROMPT	Literal	91		
MM\$K_ACTION_PRINT_MENU	Literal	91		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	91		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	91		
MM\$K_ACTION_START_AUTOSIZER	Literal	91		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	91		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	91		
MM\$K_STATE_BUILD_DDBS	Literal	91		
MM\$K_STATE_BUILD_HSTS	Literal	91		

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 CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746
 01-05 CRD\$Print_Hardware_Support Routine 3-Jan-1985 17:02:06 [DS.CRD.V020]CRDHDWSUP.B32;1 (28)

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Symbol Type Defined Referenced ...

MM\$K_STATE_CHANGE_TABLE	Literal	91		
MM\$K_STATE_DONE_INITS	Literal	91		
MM\$K_STATE_DUMMY_1	Literal	91		
MM\$K_STATE_DUMMY_2	Literal	91		
MM\$K_STATE_DUMMY_3	Literal	91		
MM\$K_STATE_DUMMY_5	Literal	91		
MM\$K_STATE_DUMMY_7	Literal	91		
MM\$K_STATE_DUMMY_8	Literal	91		
MM\$K_STATE_INTERNAL_ERROR	Literal	91		
MM\$K_STATE_LAST_STATE	Literal	91		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	91		
MM\$K_STATE_MENU_PROMPT	Literal	91		
MM\$K_STATE_PRINT_MENU	Literal	91		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	91		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	91		
MM\$K_STATE_START	Literal	91		
MM\$K_STATE_START_AUTOSIZER	Literal	91		
MODNAM	Macro	Lib01	107	
NUL2ND	Macro	Lib04	91	1065 1091 1094
OUT_HS_HEADER	Bind	1061	1065a	
OUT_HS_TABLE	Bind	1062	1091a	
SYSTEM	MacrForm	592	597	598
	MacrForm	602	607	608
	MacrForm	612	617	618
	MacrForm	622	627	628
	MacrForm	631	636	637
	MacrForm	641	646	647
	MacrForm	651	656	657
	MacrForm	661	666	667
TQ\$K_ACTION_ADVANCE_STATE	Literal	91		
TQ\$K_ACTION_CHANGE_TABLE	Literal	91		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	91		
TQ\$K_ACTION_DO_NOTHING	Literal	91		
TQ\$K_ACTION_DUMMY_3	Literal	91		
TQ\$K_ACTION_DUMMY_4	Literal	91		
TQ\$K_ACTION_DUMMY_5	Literal	91		
TQ\$K_ACTION_GET_DDB	Literal	91		
TQ\$K_ACTION_INIT_TQ	Literal	91		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	91		
TQ\$K_ACTION_LAST_ACTION	Literal	91		
TQ\$K_STATE_CHANGE_TABLE	Literal	91		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	91		
TQ\$K_STATE_DUMMY_1	Literal	91		
TQ\$K_STATE_DUMMY_2	Literal	91		
TQ\$K_STATE_DUMMY_3	Literal	91		
TQ\$K_STATE_DUMMY_4	Literal	91		
TQ\$K_STATE_DUMMY_5	Literal	91		
TQ\$K_STATE_GET_DDB	Literal	91		
TQ\$K_STATE_INIT_TQ	Literal	91		
TQ\$K_STATE_INTERNAL_ERROR	Literal	91		
TQ\$K_STATE_LAST_STATE	Literal	91		
T_NOTHING_THERE	Bind	1063	1091a	

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDHDWSUP.B32;1
3	Module	CRDHDWSUP
71	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
74	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
77	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
80	Library #4	SYSSCOMMON:[SYSLIB]LIB.L32;2
1101	Eludom	CRDHDWSUP

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	----- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17					
671	1	0		46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30					
923	2	0		94	00:00.1
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1					
486	26	5		62	00:00.1
SYSSCOMMON:[SYSLIB]LIB.L32;2	18619			3	0
				1000	00:04.2

COMMAND QUALIFIERS

BLISS CRDHDWSUP.B32/LIST=CRDHDWSUP.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDHDWSUP.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 2600 code + 3063 data bytes

Run Time: 01:02.4

Elapsed Time: 01:53.5

Lines/CPU Min: 1057

Lexemes/CPU-Min: 58581

ZZ-ENSAB-2.0 CRD\$Print_Hardware_Support Routine N 4
CRDHDWSUP *** CRDHDWSUP Module 19-Sep-1985 16:50:10 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame N4 Sequence 670
01-05 CRD\$Print_Hardware_Support Routine Page 76

; Memory Used: 613 pages
; Compilation Complete

```
: 0001 0 *TITLE '*** CRDHSACT Module'
: 0002 0 MODULE CRDHSACT ( ! Contains action routines for Hardware Support
: 0003 0 IDENT = '01-01'
: 0004 0 ) =
: 0005 0 ! *
: 0006 0 COPYRIGHT (c) 1980, 1981
: 0007 0 DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0
: 0009 0 THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 REMAIN IN DEC.
: 0016 0
: 0017 0 THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 CORPORATION.
: 0020 0
: 0021 0 DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 ! -
```

ZZ-ENSAB-2.0 *** CRDHSACT Module
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746
01-01 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (2)

C 5

Fiche 4 Frame C5
Page 2

Sequence 672

```
: 0024 0 !**
: 0025 0 ! Facility:
: 0026 0 !
: 0027 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 !
: 0029 0 ! Abstract:
: 0030 0 !
: 0031 0 ! This module contains action routines for the Hardware Support State Table.
: 0032 0 !
: 0033 0 ! Author:
: 0034 0 !
: 0035 0 ! Jack Stansbury
: 0036 0 !
: 0037 0 ! Creation Date:
: 0038 0 !
: 0039 0 ! July 30, 1982
: 0040 0 !
: 0041 0 ! Version:
: 0042 0 !
: 0043 0 ! 6.9
: 0044 0 !
: 0045 0 ! Modified By:
: 0046 0 !
: 0047 0 ! 01 Jack Stansbury, March 3, 1983, Version 1.2
: 0048 0 ! Check to make sure that the user passed the address of the error text when printing
: 0049 0 ! it out in the preparation error text routine.
: 0050 0 ! -
```

```
: 0051 0 xSBTTL 'Libraries'
: 0052 1 BEGIN      ! Begin the CRDHSACT module
: 0053 1
: 0054 1 LIBRARY
: 0055 1 '$DS';      ! Use Ds.L32 first
: 0056 1
: 0057 1 LIBRARY
: 0058 1 '$Diag';    ! Use Diag.L32 second
: 0059 1
: 0060 1 LIBRARY
: 0061 1 '$CRD';     ! Use CRD.L32 third
: 0062 1
: 0063 1 LIBRARY
: 0064 1 'Sys$Library:Lib'; ! Use Lib as last resort
```



```

: 0065 1 xSBTTL 'Table of Contents'
: 0066 1
: 0067 1 FORWARD ROUTINE
: 0068 1 HS$Init_HS : ADDRESSING_MODE (LONG_RELATIVE),
: 0069 1 HS$Advance_Diagnostic : ADDRESSING_MODE (LONG_RELATIVE),
: 0070 1
: 0071 1 HS$Load_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0072 1 HS$Advance_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0073 1 HS$Done_General_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0074 1
: 0075 1 HS$Load_Load_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0076 1 HS$Load_Set_Flags_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0077 1 HS$Load_Set_Event_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0078 1 HS$Load_Select_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0079 1 HS$Load_Start_Com : ADDRESSING_MODE (LONG_RELATIVE),
: 0080 1
: 0081 1 HS$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
: 0082 1
: 0083 1 HS$Load_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 0084 1 HS$Start_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 0085 1 HS$Diagnostic_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 0086 1 HS$Preparation_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 0087 1 HS$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
: 0088 1
: 0089 1 CRD$Print_DS_Command : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);

```

ZZ-ENSAB-2.0 Included Macros and Literals F 5
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame F5 Sequence 675
01-01 Included Macros and Literals 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 Page 5 (5)

```
; 0090 1 xSBTTL 'Included Macros and Literals'
; 0091 1
; 0092 1 $DS_DSADef; ! Define the DSA flags
; 0093 1 $CRD_Literals; ! Define the CRD literals
```

```
; 0094 1 xSBTTL 'Psect Definitions'
; 0095 1
; 0096 1 PSECT
; 0097 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0098 1
; 0099 1 PSECT
; 0100 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0101 1
; 0102 1 PSECT
; 0103 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0104 1
; 0105 1 PSECT
; 0106 1     GLOBAL = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Module-Global Static Storage H 5
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame H5 Sequence 677
01-01 Module-Global Static Storage 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 Page 7 (7)

: 0107 1 xSBTTL 'Module-Global Static Storage'
: 0108 1
: 0109 1 ModNam ('CRDHSACT'); ! Module name for ErrSup macro

ZZ-ENSAB-2.0 HS\$Init_HS Routine
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746
01-01 HS\$Init_HS Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1

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Fiche 4 Frame 15

Sequence 678

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```
: 0110 1 xSBTTL 'HS$Init_HS Routine'
: 0111 1
: 0112 1 GLOBAL ROUTINE HS$Init_HS =
: 0113 1
: 0114 1 !+
: 0115 1 ! Functional Description:
: 0116 1 !
: 0117 1 ! Describe function of routine
: 0118 1 !
: 0119 1 ! Formal Input Parameters:
: 0120 1 !
: 0121 1 ! None
: 0122 1 !
: 0123 1 ! Formal Output Parameters:
: 0124 1 !
: 0125 1 ! None
: 0126 1 !
: 0127 1 ! Side Effects:
: 0128 1 !
: 0129 1 ! None
: 0130 1 !
: 0131 1 ! Completion Codes:
: 0132 1 !
: 0133 1 ! None
: 0134 1 ! --
```

ZZ-ENSAB-2.0 HS\$Init_HS Routine
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746
 01-01 HS\$Init_HS Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1

J 5

19-Sep-1985 Fiche 4 Frame J5
 Page 9
 (9)

Sequence 679

```

: 0135 2 BEGIN      ! Routine HS$Init_HS
: 0136 2 MAP
: 0137 2   CRD$GA_HS_Current_DDB_Ptr : Device_Data_Block_Structure;
: 0138 2
: 0139 2   !+
: 0140 2   ! Initialize these two HS variables.
: 0141 2   !-
: 0142 2
: 0143 2   CRD$GA_HS_Current_HSB_Ptr = 0;
: 0144 2   CRD$GL_HS_Current_HSB_Numb = 0;
: 0145 2
: 0146 2   !+
: 0147 2   ! Initialize all of the status bits for this DDB.
: 0148 2   !-
: 0149 2
: 0150 2   CRD$Init_DDB_Status (.CRD$GA_HS_Current_DDB_Ptr);
: 0151 2
: 0152 3 RETURN (CRD$K_Repeat_Turing)
: 0153 1 END;      ! Routine HS$Init_DS

```

.TITLE CRDHSACT *** CRDHSACT Module
 .IDENT \01-01\

.PSECT DATA,NOWRT,NOEXE, SHR,2

54 43 41 53 48 44 52 43 08 00000 P.AAA: .ASCII <8>\CRDHSACT\ ;

DSA\$AL_APTMAIL= 65024
 DSA\$GL_FLAGS= 65024
 DSA\$GL_APTCOM= 65028
 DSA\$GL_PASSES= 65032
 DSA\$GL_UNITS= 65036
 DSA\$GL_SECTNO= 65040
 DSA\$GL_SID= 65044
 DSA\$GL_MSGTYP= 65088
 DSA\$GL_ERRNO= 65092
 DSA\$GL_EVENT= 65096
 DSA\$GL_SUBTNO= 65100
 DSA\$GL_TESTNO= 65104
 DSA\$GL_PASSNO= 65108
 DSA\$GL_DEVLEN= 65112
 DSA\$GL_DEVNAM= 65116
 DSA\$GL_MSGPTR= 65128

\$MODULE= P.AAA

.EXTRN HS\$INIT_HS, HS\$ADVANCE_DIAGNOSTIC
 .EXTRN HS\$LOAD_GENERAL_COM
 .EXTRN HS\$ADVANCE_GENERAL_COM
 .EXTRN HS\$DONE_GENERAL_COM
 .EXTRN HS\$LOAD_LOAD_COM
 .EXTRN HS\$LOAD_SET_FLAGS_COM
 .EXTRN HS\$LOAD_SET_EVENT_COM
 .EXTRN HS\$LOAD_SELECT_COM
 .EXTRN HS\$LOAD_START_COM
 .EXTRN HS\$CHANGE_TABLE

ZZ-ENSAB-2.0 HS\$Init_HS Routine
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746
 01-01 HS\$Init_HS Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1

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Fiche 4 Frame K5

Sequence 680

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```

.EXTRN HS$LOAD_ERROR, HS$START_ERROR
.EXTRN HS$DIAGNOSTIC_ERROR
.EXTRN HS$PREPARATION_ERROR
.EXTRN HS$INTERNAL_ERROR
.EXTRN CRD$PRINT_DS_COMMAND
.EXTRN CRD$GA_HS_CURRENT_DDB_PTR
.EXTRN CRD$GL_HS_CURRENT_HSB_PTR
.EXTRN CRD$GL_HS_CURRENT_HSB_NUMB
.EXTRN CRD$INIT_DDB_STATUS

```

.PSECT CODE, NOWRT, SHR, PIC, 2

```

      0000 00000 .ENTRY HS$INIT_HS, Save nothing ; 0112
00000000G EF D4 00002 CLRL CRD$GA_HS_CURRENT_HSB_PTR ; 0143
00000000G EF D4 00008 CLRL CRD$GL_HS_CURRENT_HSB_NUMB ; 0144
00000000G EF DD 0000E PUSHL CRD$GA_HS_CURRENT_DDB_PTR ; 0150
00000000G EF 01 FB 00014 CALLS #1, CRD$INIT_DDB_STATUS ;
      50 02 D0 0001B MOVL #2, R0 ; 0152
      04 0001E RET ; 0153

```

; Routine Size: 31 bytes, Routine Base: CODE + 0000

ZZ-ENSAB-2.0 HS\$Advance_Diagnostic Routine L 5
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame L5 Sequence 681
01-01 HS\$Advance_Diagnostic Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (10) Page 11

```
: 0154 1 xSBTTL 'HS$Advance_Diagnostic Routine'
: 0155 1
: 0156 1 GLOBAL ROUTINE HS$Advance_Diagnostic =
: 0157 1
: 0158 1 !*
: 0159 1 ! Functional Description:
: 0160 1 !
: 0161 1 ! Describe function of routine
: 0162 1 !
: 0163 1 ! Formal Input Parameters:
: 0164 1 !
: 0165 1 ! None
: 0166 1 !
: 0167 1 ! Formal Output Parameters:
: 0168 1 !
: 0169 1 ! None
: 0170 1 !
: 0171 1 ! Side Effects:
: 0172 1 !
: 0173 1 ! None
: 0174 1 !
: 0175 1 ! Completion Codes:
: 0176 1 !
: 0177 1 ! None
: 0178 1 ! -
```



```

: 0179 2 BEGIN      ! Routine HS$Advance_Diagnostic
: 0180 2 MAP
: 0181 2   CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
: 0182 2
: 0183 2   IF (.CRD$GL_HS_Current_HSB_Numb EQL 0) THEN
: 0184 3   BEGIN
: 0185 3   !+
: 0186 3   ! This is the first 'Advance_Diagnostic' we have done for this set of HSB's. Get a
: 0187 3   ! pointer to the first HSB from the DDB.
: 0188 3   !-
: 0189 3
: 0190 3   CRD$GA_HS_Current_HSB_Ptr = .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Menu_Support_Entry];
: 0191 3   END
: 0192 2 ELSE
: 0193 3   BEGIN
: 0194 3   !+
: 0195 3   ! This is not the first HSB in this set of HSB's. Increment the HSB_Ptr to the next HSB.
: 0196 3   ! Increment by (the number of longwords per HSB) * (4 bytes)
: 0197 3   !-
: 0198 3
: 0199 3   CRD$GA_HS_Current_HSB_Ptr = .CRD$GA_HS_Current_HSB_Ptr + CRD$K_Numb_Support_Entries * 4;
: 0200 3
: 0201 3   !+
: 0202 3   ! Check to see if we should print PASS or *FAILED*. If so, go ahead and print it.
: 0203 3   ! Set the appropriate status bits.
: 0204 3   !-
: 0205 3
: 0206 3   IF (NOT .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed>) THEN
: 0207 3   $CRD_Print (CRD$GT_Pass);
: 0208 3
: 0209 3   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad> =
: 0210 3   .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad> OR
: 0211 3   .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Diagnostic_Error>;
: 0212 2   END;
: 0213 2
: 0214 2   IF (.CRD$GL_HS_Current_HSB_Numb EQL .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Numb_Support_Tables]) THEN
: 0215 3   BEGIN
: 0216 3   !+
: 0217 3   ! We have finished doing all the hardware support blocks for this DDB. Change the state
: 0218 3   ! table to the Test Queue State Table.
: 0219 3   !-
: 0220 3   CRD$GL_HS_Current_State = HS$K_State_Change_Table;
: 0221 3   END
: 0222 2 ELSE
: 0223 3   BEGIN
: 0224 3   !+
: 0225 3   ! We still have at least one more Hardware Support Block to run. Increment the running
: 0226 3   ! counter of HSB's done so far.
: 0227 3   !-
: 0228 3
: 0229 3   CRD$GL_HS_Current_HSB_Numb = .CRD$GL_HS_Current_HSB_Numb + 1;
: 0230 3
: 0231 3   !+
: 0232 3   ! Print the testing started message.
: 0233 3   !-
    
```

```

; 0234 3
; 0235 3 MEN$FncTst_TestStrt_Text (.CRD$GA_HS_Current_DDB_Ptr, .CRD$GA_HS_Current_HSB_Ptr);
; 0236 2 END;
; 0237 2
; 0238 2 !+
; 0239 2 ! Before starting the test, assume the diagnostic will not detect any errors, and that no
; 0240 2 ! messages have been printed for it so far.
; 0241 2 !-
; 0242 2
; 0243 2 CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Diagnostic_Error> = False;
; 0244 2 CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = False;
; 0245 2
; 0246 2 IF (.CRD$GB_CRD_Debug) THEN
; 0247 3 BEGIN
; P 0248 3 $CRD_Print ($ASCII ('*** Advance Diagnostic: Status bits for !XL DDB: !XL!/' ),
; 0249 3 .CRD$GA_HS_Current_DDB_Ptr, .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status]);
; 0250 2 END;
; 0251 2
; 0252 3 RETURN (CRD$K_Repeat_Turing)
; 0253 1 END; ! Routine HS$Advance_Diagnostic
    
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

69 44 5F 65 63 6E 61 76 64 41 20 2A 2A 2A 36 00009 P.AAB: .ASCII \6*** Advance_Diagnostic: Status bits for\ ;
75 74 61 74 53 20 3A 63 69 74 73 6F 6E 67 61 00018 ;
    72 6F 66 20 73 74 69 62 20 73 00027 ;
2F 21 4C 58 21 20 3A 42 44 44 20 4C 58 21 20 00031 .ASCII \ !XL DDB: !XL!/\ ;
    
```

```

.EXTRN CRD$GT_PASS, CRD$PRINT
.EXTRN CRD$GL_HS_CURRENT_STATE
.EXTRN MEN$FNCTST_TESTSTRT_TEXT
.EXTRN CRD$GB_CRD_DEBUG
    
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

    0004 00000 .ENTRY HS$ADVANCE_DIAGNOSTIC, Save R2 ; 0156
    50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0190
    00000000G EF D5 00009 TSTL CRD$GL_HS_CURRENT_HSB_NUMB ; 0183
    0A 12 0000F BNEQ 1$ ;
    00000000G EF 10 A0 D0 00011 MOVL 16(R0), CRD$GA_HS_CURRENT_HSB_PTR ; 0190
    39 11 00019 BRB 3$ ; 0183
    00000000G EF 20 C0 0001B 1$: ADDL2 #32, CRD$GA_HS_CURRENT_HSB_PTR ; 0199
    11 14 A0 06 E0 00022 BBS #6, 20(R0), 2$ ; 0206
    00000000G EF 9F 00027 PUSHAB CRD$GT_PASS ; 0207
    01 DD 0002D PUSHL #1 ;
    1A DD 0002F PUSHL #26 ;
    00000000G FF 03 FB 00031 CALLS #3, @CRD$PRINT ;
    50 00000000G EF D0 00038 2$: MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0209
51 14 A0 01 04 EF 0003F EXTZV #4, #1, 20(R0), R1 ; 0211
52 14 A0 01 00 EF 00045 EXTZV #0, #1, 20(R0), R2 ;
    51 52 88 0004B BISB2 R2, R1 ;
    14 A0 01 04 51 F0 0004E INSV R1, #4, #1, 20(R0) ;
    50 00000000G EF D0 00054 3$: MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0214
    
```

ZZ-ENSAB-2.0 HS\$Advance Diagnostic Routine B 6
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame B6 Sequence 684
 01-01 HS\$Advance Diagnostic Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (11)

```

18 A0 00000000G EF D1 0005B CMPL CRD$GL_HS_CURRENT_HSB_NUMB, 24(R0) ;
   09 12 00063 BNEQ 4$ ;
00000000G EF 10 D0 00065 MOVL #16, CRD$GL_HS_CURRENT_STATE ; 0220
   15 11 0006C BRB 5$ ; 0214
00000000G EF D6 0006E 4$: INCL CRD$GL_HS_CURRENT_HSB_NUMB ; 0229
00000000G EF DD 00074 PUSHL CRD$GA_HS_CURRENT_HSB_PTR ; 0235
   50 DD 0007A PUSHL R0 ;
00000000G EF 02 FB 0007C CALLS #2, MEN$FNCTST_TESTSTRT_TEXT ;
   50 00000000G EF D0 00083 5$: MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0243
14 A0 41 8F 8A 0008A BICB2 #65, 20(R0) ; 0244
   16 00000000G EF E9 0008F BLBC CRD$GB_CRD_DEBUG, 6$ ; 0246
14 A0 DD 00096 PUSHL 20(R0) ; 0249
   50 DD 00099 PUSHL R0 ;
00000000' EF 9F 0009B PUSHAB P.AAB ;
   01 DD 000A1 PUSHL #1 ;
   1A DD 000A3 PUSHL #26 ;
00000000G FF 05 FB 000A5 CALLS #5, @CRD$PRINT ;
   50 02 D0 000AC 6$: MOVL #2, R0 ; 0252
   04 000AF RET ; 0253

```

; Routine Size: 176 bytes, Routine Base: CODE + 001F

```

; 0254 1 xSBTTL 'HS$Load_General_Com Routine'
; 0255 1
; 0256 1 GLOBAL ROUTINE HS$Load_General_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0257 1
; 0258 1 !**
; 0259 1 ! Functional Description:
; 0260 1 !
; 0261 1 ! Describe function of routine
; 0262 1 !
; 0263 1 ! Formal Input Parameters:
; 0264 1 !
; 0265 1 ! None
; 0266 1 !
; 0267 1 ! Formal Output Parameters:
; 0268 1 !
; 0269 1 ! None
; 0270 1 !
; 0271 1 ! Side Effects:
; 0272 1 !
; 0273 1 ! None
; 0274 1 !
; 0275 1 ! Completion Codes:
; 0276 1 !
; 0277 1 ! None
; 0278 1 ! --

```

ZZ-ENSAB-2.0 HS\$Load_General_Com Routine D 6
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame D6 Sequence 686
 01-01 HS\$Load_General_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (13)

```

; 0279 2 BEGIN      ! Routine HS$Load_General_Com
; 0280 2 RETURN (CRD$Load_General_Com (.CLI_Buffer_Length, .CLI_Buffer_Address));
; 0281 1 END;      ! Routine HS$Load_General_Com

```

.EXTRN CRD\$LOAD_GENERAL_COM

```

      0000 00000 .ENTRY HS$LOAD_GENERAL_COM, Save nothing      ; 0256
      7E 04 AC 7D 00002 MOVQ CLI_BUFFER_LENGTH, -(SP)      ; 0280
00000000G EF 02 FB 00006 CALLS #2, CRD$LOAD_GENERAL_COM      ;
      04 0000D RET ; 0281

```

; Routine Size: 14 bytes, Routine Base: CODE + 00CF

ZZ-ENSAB-2.0 HS\$Advance_General_Com Routine
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746
01-01 HS\$Advance_General_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (14)

E 6

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Fiche 4 Frame E6

Sequence 687

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```
: 0282 1 xSBTTL 'HS$Advance_General_Com Routine'
: 0283 1
: 0284 1 GLOBAL ROUTINE HS$Advance_General_Com =
: 0285 1
: 0286 1 !*+
: 0287 1 ! Functional Description:
: 0288 1 !
: 0289 1 ! Describe function of routine
: 0290 1 !
: 0291 1 ! Formal Input Parameters:
: 0292 1 !
: 0293 1 ! None
: 0294 1 !
: 0295 1 ! Formal Output Parameters:
: 0296 1 !
: 0297 1 ! None
: 0298 1 !
: 0299 1 ! Side Effects:
: 0300 1 !
: 0301 1 ! None
: 0302 1 !
: 0303 1 ! Completion Codes:
: 0304 1 !
: 0305 1 ! None
: 0306 1 ! --
```

```

; 0307 2 BEGIN      ! Routine HS$Advance_General_Com
; 0308 2 IF (.CRD$GL_Current_General_Com EQL (CRD$K_Numb_General_Commands - 1)) THEN
; 0309 2   CRD$GL_HS_Current_State = HS$K_State_Done_General_Coms
; 0310 2 ELSE
; 0311 2   CRD$GL_Current_General_Com = .CRD$GL_Current_General_Com + 1;
; 0312 2
; 0313 2 RETURN (CRD$K_Repeat_Turing);
; 0314 1 END;      ! Routine HS$Advance_General_Com

```

.EXTRN CRD\$GL_CURRENT_GENERAL_COM

```

      0000 00000 .ENTRY HS$ADVANCE_GENERAL_COM, Save nothing ; 0284
02 00000000G EF D1 00002 CMPL CRD$GL_CURRENT_GENERAL_COM, #2 ; 0308
09 12 00009 BNEQ 1$ ;
00000000G EF 07 D0 0000B MOVL #7, CRD$GL_HS_CURRENT_STATE ; 0309
06 11 00012 BRB 2$ ;
00000000G EF D6 00014 1$: INCL CRD$GL_CURRENT_GENERAL_COM ; 0311
50 02 D0 0001A 2$: MOVL #2, R0 ; 0313
04 0001D RET ; 0314

```

; Routine Size: 30 bytes. Routine Base: CODE + 00DD

```

: 0315 1 xSBTTL 'HS$Done_General_Coms Routine'
: 0316 1
: 0317 1 GLOBAL ROUTINE HS$Done_General_Coms =
: 0318 1
: 0319 1 !*
: 0320 1 ! Functional Description:
: 0321 1 !
: 0322 1 ! Describe function of routine
: 0323 1 !
: 0324 1 ! Formal Input Parameters:
: 0325 1 !
: 0326 1 ! None
: 0327 1 !
: 0328 1 ! Formal Output Parameters:
: 0329 1 !
: 0330 1 ! None
: 0331 1 !
: 0332 1 ! Side Effects:
: 0333 1 !
: 0334 1 ! None
: 0335 1 !
: 0336 1 ! Completion Codes:
: 0337 1 !
: 0338 1 ! None
: 0339 1 ! -

```


ZZ-ENSAB-2.0 HS\$Done_General_Coms Routine H 6
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame H6 Sequence 690
 01-01 HS\$Done_General_Coms Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 Page 20 (17)

```

; 0340 2 BEGIN      ! Routine HS$Done_General_Coms
; 0341 2 RETURN (CRD$Done_General_Coms ());
; 0342 1 END;       ! Routine HS$Done_General_Coms

```

.EXTRN CRD\$DONE_GENERAL_COMS

```

      0000 00000 .ENTRY HS$DONE_GENERAL_COMS, Save nothing ; 0317
00000000G EF    00 FB 00002 CALLS #0, CRD$DONE_GENERAL_COMS ; 0341
      04 00009 RET ; 0342

```

; Routine Size: 10 bytes, Routine Base: CODE + 00FB

```

; 0343 1 xSBTTL 'HS$Load_Load_Com Routine'
; 0344 1
; 0345 1 GLOBAL ROUTINE HS$Load_Load_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0346 1
; 0347 1 !*
; 0348 1 | Functional Description:
; 0349 1 |
; 0350 1 | Describe function of routine
; 0351 1 |
; 0352 1 | Formal Input Parameters:
; 0353 1 |
; 0354 1 | None
; 0355 1 |
; 0356 1 | Formal Output Parameters:
; 0357 1 |
; 0358 1 | None
; 0359 1 |
; 0360 1 | Side Effects:
; 0361 1 |
; 0362 1 | None
; 0363 1 |
; 0364 1 | Completion Codes:
; 0365 1 |
; 0366 1 | None
; 0367 1 | --

```

```

; 0368 2 BEGIN      ! Routine HS$Load_Load_Com
; 0369 2 MAP
; 0370 2   CRD$GT_DS_LOAD_Com : VECTOR [, BYTE];
; 0371 2
; 0372 2 MAP
; 0373 2   CRD$GA_HS_Current_HSB_Ptr : REF Hardware_Support_Vector;
; 0374 2
; 0375 2 BIND
; 0376 2   Diag_Name = (.CRD$GA_HS_Current_HSB_Ptr [CRD$K_Diagnostic_Name]) : VECTOR [, BYTE];
; 0377 2
; 0378 2 CH$COPY (
; 0379 2   .CRD$GT_DS_LOAD_Com [0], CH$PTR (CRD$GT_DS_LOAD_Com [1]),
; 0380 2   .Diag_Name [0], CH$PTR (Diag_Name [1]),
; 0381 2   xC,
; 0382 2   .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 0383 2 );
; 0384 2
; 0385 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0386 2
; 0387 2 $CRD_Return_Length_Status (CRD$K_Success);
; 0388 1 END;      ! Routine HS$Load_Load_Com

```

.EXTRN CRD\$GT_DS_LOAD_COM

```

07FC 00000 .ENTRY HS$LOAD_LOAD_COM, Save R2,R3,R4,R5,R6,R7,- ; 0345
R8,R9,R10
58 00000000G FF D0 00002 MOVL @CRD$GA_HS_CURRENT_HSB_PTR, R8 ; 0376
5A 00000000G EF 9A 00009 MOVZBL CRD$GT_DS_LOAD_COM, R10 ; 0379
59 68 9A 00010 MOVZBL (R8), R9 ; 0380
57 04 AC D0 00013 MOVL CLI_BUFFER_LENGTH, R7 ; 0382
56 08 AC D0 00017 MOVL CLI_BUFFER_ADDRESS, R6
57 20 00000000G EF 5A 2C 0001B MOVC5 R10, CRD$GT_DS_LOAD_COM+1, #32, R7, (R6) ;
66 00024 ;
0D 18 00025 BGEQ 1$ ;
56 5A C0 00027 ADDL2 R10, R6 ;
57 5A C2 0002A SUBL2 R10, R7 ;
57 20 01 A8 59 2C 0002D MOVC5 R9, 1(R8), #32, R7, (R6) ;
66 00033 ;
7E 04 AC 7D 00034 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0385
00000000V EF 02 FB 00038 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 0003F MOVL #5242881, R0 ; 0387
04 00046 RET ; 0388

```

; Routine Size: 71 bytes, Routine Base: CODE + 0105

```
; 0389 1  xSBTTL 'HS$Load_Set_Flags_Com Routine'
; 0390 1
; 0391 1  GLOBAL ROUTINE HS$Load_Set_Flags_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0392 1
; 0393 1  !**
; 0394 1  ! Functional Description:
; 0395 1  !
; 0396 1  ! Describe function of routine
; 0397 1  !
; 0398 1  ! Formal Input Parameters:
; 0399 1  !
; 0400 1  ! None
; 0401 1  !
; 0402 1  ! Formal Output Parameters:
; 0403 1  !
; 0404 1  ! None
; 0405 1  !
; 0406 1  ! Side Effects:
; 0407 1  !
; 0408 1  ! None
; 0409 1  !
; 0410 1  ! Completion Codes:
; 0411 1  !
; 0412 1  ! None
; 0413 1  ! --
```

```

; 0414 2 BEGIN      ! Routine HS$Load_Set_Flags_Com
; 0415 2 MAP
; 0416 2   CRD$GT_DS_SET_FLAGS_Com : VECTOR [, BYTE];
; 0417 2
; 0418 2 MAP
; 0419 2   CRD$GA_HS_Current_HSB_Ptr : REF Hardware_Support_Vector;
; 0420 2
; 0421 2 BIND
; 0422 2   Set_Flags_Args = (.CRD$GA_HS_Current_HSB_Ptr [CRD$K_Set_Flags_Args]) : VECTOR [, BYTE];
; 0423 2
; 0424 2 IF (.Set_Flags_Args [0] EQL 0) THEN
; 0425 3   RETURN (CRD$K_Repeat_Turing)
; 0426 2 ELSE
; 0427 2   CH$COPY (
; 0428 2     .CRD$GT_DS_SET_FLAGS_Com [0], CH$PTR (CRD$GT_DS_SET_FLAGS_Com [1]),
; 0429 2     .Set_Flags_Args [0],          CH$PTR (Set_Flags_Args [1]),
; 0430 2     %C,
; 0431 2     .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 0432 2   );
; 0433 2
; 0434 2   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0435 2
; 0436 2   $CRD_Return_Length_Status (CRD$K_Success);
; 0437 1 END;      ! Routine HS$Load_Set_Flags_Com

```

.EXTRN CRD\$GT_DS_SET_FLAGS_COM

```

07FC 00000 .ENTRY HS$LOAD_SET_FLAGS_COM, Save R2,R3,R4,R5,R6,-; 0391
R7,R8,R9,R10
50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_HSB_PTR, R0 ; 0422
57 04 A0 D0 00009 MOVL 4(R0), R7 ;
67 95 0000D TSTB (R7) ; 0424
04 12 0000F BNEQ 1$ ;
50 02 D0 00011 MOVL #2, R0 ; 0425
04 00014 RET ;
5A 00000000G EF 9A 00015 1$: MOVZBL CRD$GT_DS_SET_FLAGS_COM, R10 ; 0428
59 67 9A 0001C MOVZBL (R7), R9 ; 0429
58 04 AC D0 0001F MOVL CLI_BUFFER_LENGTH, R8 ; 0431
56 08 AC D0 00023 MOVL CLI_BUFFER_ADDRESS, R6 ;
58 20 00000000G EF 5A 2C 00027 MOVCS R10, CRD$GT_DS_SET_FLAGS_COM+1, #32, R8, - ;
66 00030 (R6) ;
0D 18 00031 BGEQ 2$ ;
56 5A C0 00033 ADDL2 R10, R6 ;
58 5A C2 00036 SUBL2 R10, R8 ;
58 20 01 A7 59 2C 00039 MOVCS R9, 1(R7), #32, R8, (R6) ;
66 0003F ;
7E 04 AC 7D 00040 2$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0434
00000000V EF 02 FB 00044 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 0004B MOVL #5242881, R0 ; 0436
04 00052 RET ; 0437

```

; Routine Size: 83 bytes, Routine Base: CODE + 014C

ZZ-ENSAB-2.0 HS\$Load_Set_Flags_Com Routine M 6 19-Sep-1985 Fiche 4 Frame M6 Sequence 695
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Page 25
01-01 HS\$Load_Set_Flags_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (21)

```
; 0438 1 *SBTTL 'HS$Load_Set_Event_Com Routine'
; 0439 1
; 0440 1 GLOBAL ROUTINE HS$Load_Set_Event_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0441 1
; 0442 1 !++
; 0443 1 ! Functional Description:
; 0444 1 !
; 0445 1 ! Describe function of routine
; 0446 1 !
; 0447 1 ! Formal Input Parameters:
; 0448 1 !
; 0449 1 ! None
; 0450 1 !
; 0451 1 ! Formal Output Parameters:
; 0452 1 !
; 0453 1 ! None
; 0454 1 !
; 0455 1 ! Side Effects:
; 0456 1 !
; 0457 1 ! None
; 0458 1 !
; 0459 1 ! Completion Codes:
; 0460 1 !
; 0461 1 ! None
; 0462 1 ! --
```

```

: 0463 2 BEGIN ! Routine HS$Load_Set_Event_Com
: 0464 2 MAP
: 0465 2 CRD$GT_DS_SET_EVENT_Com : VECTOR [, BYTE];
: 0466 2
: 0467 2 MAP
: 0468 2 CRD$GA_HS_Current_HSB_Ptr : REF Hardware_Support_Vector;
: 0469 2
: 0470 2 BIND
: 0471 2 Set_Event_Args = (.CRD$GA_HS_Current_HSB_Ptr [CRD$K_Set_Event_Args]) : VECTOR [, BYTE];
: 0472 2
: 0473 2 IF (.Set_Event_Args [0] EQL 0) THEN
: 0474 3 RETURN (CRD$K_Repeat_Turing)
: 0475 2 ELSE
: 0476 2 CH$COPY (
: 0477 2 .CRD$GT_DS_SET_EVENT_Com [0], CH$PTR (CRD$GT_DS_SET_EVENT_Com [1]),
: 0478 2 .Set_Event_Args [0], CH$PTR (Set_Event_Args [1]),
: 0479 2 %C
: 0480 2 .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
: 0481 2 );
: 0482 2
: 0483 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0484 2
: 0485 2 $CRD_Return_Length_Status (CRD$K_Success);
: 0486 1 END; ! Routine HS$Load_Set_Event_Com
  
```

.EXTRN CRD\$GT_DS_SET_EVENT_COM

```

07FC 00000 .ENTRY HS$LOAD_SET_EVENT_COM, Save R2,R3,R4,R5,R6,-; 0440
R7,R8,R9,R10
50 00000000G EF DO 00002 MOVL CRD$GA_HS_CURRENT_HSB_PTR, R0 ; 0471
57 08 A0 DO 00009 MOVL 8(R0), R7 ;
67 95 0000D TSTB (R7) ; 0473
04 12 0000F BNEQ 1$ ;
50 02 DO 00011 MOVL #2, R0 ; 0474
04 00014 RET ;
5A 00000000G EF 9A 00015 1$: MOVZBL CRD$GT_DS_SET_EVENT_COM, R10 ; 0477
59 67 9A 0001C MOVZBL (R7), R9 ; 0478
58 04 AC DO 0001F MOVL CLI_BUFFER_LENGTH, R8 ; 0480
56 08 AC DO 00023 MOVL CLI_BUFFER_ADDRESS, R6 ;
58 20 00000000G EF 5A 2C 00027 MOVCS R10, CRD$GT_DS_SET_EVENT_COM+1, #32, R8, - ;
66 00030 (R6) ;
0D 18 00031 BGEQ 2$ ;
56 5A C0 00033 ADDL2 R10, R6 ;
58 5A C2 00036 SUBL2 R10, R8 ;
58 20 01 A7 59 2C 00039 MOVCS R9, 1(R7), #32, R8, (R6) ;
66 0003F ;
7E 04 AC 7D 00040 2$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0483
00000000V EF 02 FB 00044 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F DO 0004B MOVL #5242881, R0 ; 0485
04 00052 RET ; 0486
  
```

; Routine Size: 83 bytes, Routine Base: CODE + 019F

ZZ-ENSAB-2.0 HS\$Load_Set_Event_Com Routine C 7
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame C7 Sequence 698
01-01 HS\$Load_Set_Event_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 Page 28 (23)

```
: 0487 1 xSBTTL 'HS$Load_Select_Com Routine'
: 0488 1
: 0489 1 GLOBAL ROUTINE HS$Load_Select_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0490 1
: 0491 1 !**
: 0492 1 ! Functional Description:
: 0493 1 !
: 0494 1 ! Describe function of routine
: 0495 1 !
: 0496 1 ! Formal Input Parameters:
: 0497 1 !
: 0498 1 ! None
: 0499 1 !
: 0500 1 ! Formal Output Parameters:
: 0501 1 !
: 0502 1 ! None
: 0503 1 !
: 0504 1 ! Side Effects:
: 0505 1 !
: 0506 1 ! None
: 0507 1 !
: 0508 1 ! Completion Codes:
: 0509 1 !
: 0510 1 ! None
: 0511 1 ! --
```

```

: 0512 2 BEGIN      ! Routine HS$Load_Select_Com
: 0513 2 MAP
: 0514 2   CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
: 0515 2
: 0516 2 MAP
: 0517 2   CRD$GT_DS_SELECT_Com : VECTOR [, BYTE];
: 0518 2
: 0519 2 LOCAL
: 0520 2   Device_Name_ASCIC_Ptr;
: 0521 2
: 0522 2   Device_Name_ASCIC_Ptr = CRD$Get_Device_Name (.CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_PTable_Entry]);
: 0523 2
: 0524 3 BEGIN
: 0525 3 MAP
: 0526 3   Device_Name_ASCIC_Ptr : REF VECTOR [, BYTE];
: 0527 3
: 0528 3 CH$COPY (
: 0529 3   .CRD$GT_DS_SELECT_Com [0], CH$PTR (CRD$GT_DS_SELECT_Com [1]),
: 0530 3   .Device_Name_ASCIC_Ptr [0], CH$PTR (Device_Name_ASCIC_Ptr [1]),
: 0531 3   'C',
: 0532 3   .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
: 0533 3 );
: 0534 2 END;
: 0535 2
: 0536 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0537 2
: 0538 2 $CRD_Return_Length_Status (CRD$K_Success);
: 0539 1 END;      ! Routine HS$Load_Select_Com

```

```

.EXTRN CRD$GT_DS_SELECT_COM
.EXTRN CRD$GET_DEVICE_NAME

```

```

07FC 00000 .ENTRY HS$LOAD_SELECT_COM, Save R2,R3,R4,R5,R6,R7,-; 0489
R8,R9,R10
08 50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0522
A0 DD 00009 PUSHL 8(R0)
00000000G EF 01 FB 0000C CALLS #1, CRD$GET_DEVICE_NAME ;
58 50 D0 00013 MOVL R0, DEVICE_NAME_ASCIC_PTR ;
5A 00000000G EF 9A 00016 MOVZBL CRD$GT_DS_SELECT_COM, R10 ; 0529
59 68 9A 0001D MOVZBL (DEVICE_NAME_ASCIC_PTR), R9 ; 0530
57 04 AC D0 00020 MOVL CLI_BUFFER_LENGTH, R7 ; 0532
56 08 AC D0 00024 MOVL CLI_BUFFER_ADDRESS, R6 ;
57 20 00000000G EF 5A 2C 00028 MOVC5 R10, CRD$GT_DS_SELECT_COM+1, #32, R7, (R6) ;
66 00031 ;
0D 18 00032 BGEQ 1$ ;
56 5A C0 00034 ADDL2 R10, R6 ;
57 5A C2 00037 SUBL2 R10, R7 ;
57 20 01 A8 59 2C 0003A MOVC5 R9, 1(DEVICE_NAME_ASCIC_PTR), #32, R7, (R6) ;
66 00040 ;
7E 04 AC 7D 00041 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0536
00000000V EF 02 FB 00045 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 BF D0 0004C MOVL #5242881, R0 ; 0538
04 00053 RET ; 0539

```

ZZ-ENSAB-2.0 HS\$Load_Select_Com Routine F 7
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame F7 Sequence 701
01-01 HS\$Load_Select_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (25) Page 31

; Routine Size: 84 bytes, Routine Base: CODE + 01F2

ZZ-ENSAB-2.0 HS\$Load_Start_Com Routine G 7
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame G7 Sequence 702
01-01 HS\$Load_Start_Com Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (26) Page 32

```
; 0540 1 xSBTTL 'HS$Load_Start_Com Routine'
; 0541 1
; 0542 1 GLOBAL ROUTINE HS$Load_Start_Com (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0543 1
; 0544 1 !*
; 0545 1 ! Functional Description:
; 0546 1 !
; 0547 1 ! Describe function of routine
; 0548 1 !
; 0549 1 ! Formal Input Parameters:
; 0550 1 !
; 0551 1 ! None
; 0552 1 !
; 0553 1 ! Formal Output Parameters:
; 0554 1 !
; 0555 1 ! None
; 0556 1 !
; 0557 1 ! Side Effects:
; 0558 1 !
; 0559 1 ! None
; 0560 1 !
; 0561 1 ! Completion Codes:
; 0562 1 !
; 0563 1 ! None
; 0564 1 ! --
```

```

; 0565 2 BEGIN      ! Routine HS$Load_Start_Com
; 0566 2 MAP
; 0567 2   CRD$GT_DS_START_Com : VECTOR [, BYTE];
; 0568 2
; 0569 2 MAP
; 0570 2   CRD$GA_HS_Current_HSB_Ptr : REF Hardware_Support_Vector;
; 0571 2
; 0572 2 BIND
; 0573 2   Start_Qualifiers = (.CRD$GA_HS_Current_HSB_Ptr [CRD$K_Start_Qualifiers]) : VECTOR [, BYTE];
; 0574 2
; 0575 2 CH$COPY (
; 0576 2   .CRD$GT_DS_START_Com [0], CH$PTR (CRD$GT_DS_START_Com [1]),
; 0577 2   .Start_Qualifiers [0], CH$PTR (Start_Qualifiers [1]),
; 0578 2   xC',
; 0579 2   .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
; 0580 2 );
; 0581 2
; 0582 2 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0583 2
; 0584 2 $CRD_Return_Length_Status (CRD$K_Success);
; 0585 1 END;      ! Routine HS$Load_Start_Com

```

.EXTRN CRD\$GT_DS_START_COM

```

07FC 00000 .ENTRY HS$LOAD_START_COM, Save R2,R3,R4,R5,R6,R7,- ; 0542
R8,R9,R10
50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_HSB_PTR, R0 ; 0573
58 10 A0 D0 00009 MOVL 16(R0), R8
5A 00000000G EF 9A 0000D MOVZBL CRD$GT_DS_START_COM, R10 ; 0576
59 68 9A 00014 MOVZBL (R8), R9 ; 0577
57 04 AC D0 00017 MOVL CLI_BUFFER_LENGTH, R7 ; 0579
56 08 AC D0 0001B MOVL CLI_BUFFER_ADDRESS, R6
57 20 00000000G EF 5A 2C 0001F MOVCS R10, CRD$GT_DS_START_COM+1, #32, R7, (R6) ;
66 00028 ;
0D 18 00029 BGEQ 1$ ;
56 5A C0 0002B ADDL2 R10, R6 ;
57 5A C2 0002E SUBL2 R10, R7 ;
57 20 01 A8 59 2C 00031 MOVCS R9, 1(R8), #32, R7, (R6) ;
66 00037 ;
7E 04 AC 7D 00038 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0582
00000000V EF 02 FB 0003C CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00043 MOVL #5242881, R0 ; 0584
04 0004A RET ; 0585

```

; Routine Size: 75 bytes, Routine Base: CODE + 0246

ZZ-ENSAB-2.0 HS\$Change_Table Routine

CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746

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01-01 HS\$Change_Table Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (29)

```

; 0611 2 BEGIN      ! Routine HS$Change_Table
; 0612 2  MAP
; 0613 2  CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
; 0614 2
; 0615 2  !+
; 0616 2  ! Go back to the Test Queue State Table. Do any cleanups that are necessary here.
; 0617 2  !-
; 0618 2
; 0619 2  CRD$GL_HS_Current_State = HS$K_State_Init_HS;
; 0620 2      ! Reset this to its start state
; 0621 2
; 0622 2  CRD$GB_Current_State_Table = MEN$K_TQ_State_Table;
; 0623 2      ! Use the TQ State Table now
; 0624 2
; 0625 3  RETURN (CRD$K_Repeat_Turing)
; 0626 1  END;      ! Routine HS$Change_Table

```

.EXTRN CRD\$GB_CURRENT_STATE_TABLE

```

      0000 00000 .ENTRY HS$CHANGE_TABLE, Save nothing ; 0588
00000000G EF      03 D0 00002  MOVL      #3, CRD$GL_HS_CURRENT_STATE ; 0619
00000000G EF      01 90 00009  MOVB      #1, CRD$GB_CURRENT_STATE_TABLE ; 0622
      50      02 D0 00010  MOVL      #2, R0 ; 0625
      04 00013  RET ; 0626

```

; Routine Size: 20 bytes, Routine Base: CODE + 0291


```
: 0627 1 xSBTTL 'HS$Load_Error Routine'
: 0628 1
: 0629 1 GLOBAL ROUTINE HS$Load_Error =
: 0630 1
: 0631 1 !**
: 0632 1 ! Functional Description:
: 0633 1 !
: 0634 1 ! Describe function of routine
: 0635 1 !
: 0636 1 ! Formal Input Parameters:
: 0637 1 !
: 0638 1 ! None
: 0639 1 !
: 0640 1 ! Formal Output Parameters:
: 0641 1 !
: 0642 1 ! None
: 0643 1 !
: 0644 1 ! Side Effects:
: 0645 1 !
: 0646 1 ! None
: 0647 1 !
: 0648 1 ! Completion Codes:
: 0649 1 !
: 0650 1 ! None
: 0651 1 ! --
```

ZZ-ENSAB-2.0 HS\$Load_Error Routine

CRDHSACT *** CRDHSACT Module

19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746

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01-01 HS\$Load_Error Routine

3-Jan-1985 17:02:07 (DS.CRD.V020)CRDHSACT.B32:1

(31)

```

; 0652 2 BEGIN      ! Routine HS$Load_Error
; 0653 2  MAP
; 0654 2  CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
; 0655 2
; 0656 2  CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;
; 0657 2
; 0658 2  CRD$GA_Current_Diagnostic = .CRD$GA_HS_Current_DDB_Ptr;
; 0659 2  RETURN (CRD$Load_Error ()); ! Let it do the work
; 0660 1 END;      ! Routine HS$Load_Error

```

```
.EXTRN CRD$GA_CURRENT_DIAGNOSTIC
.EXTRN CRD$LOAD_ERROR
```

```

0000 C0000 .ENTRY HS$LOAD_ERROR, Save nothing ; 0629
50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0656
14 A0 40 8F 88 00009 BISB2 #64, 20(R0) ;
00000000G EF 50 D0 0000E MOVL R0, CRD$GA_CURRENT_DIAGNOSTIC ; 0658
00000000G EF 00 FB 00015 CALLS #0, CRD$LOAD_ERROR ; 0659
04 0001C RET ; 0660

```

```
; Routine Size: 29 bytes,    Routine Base: CODE + 02A5
```

[illegible]

ZZ-ENSAB-2.0 HS\$Start_Error Routine

CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746

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```
01-01 HS$Start_Error Routine      3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (32)
```

```

; 0661 1 xSBTTL 'HS$Start_Error Routine'
; 0662 1
; 0663 1 GLOBAL ROUTINE HS$Start_Error =
; 0664 1
; 0665 1 !*
; 0666 1 ! Functional Description:
; 0667 1 !
; 0668 1 ! Describe function of routine
; 0669 1 !
; 0670 1 ! Formal Input Parameters:
; 0671 1 !
; 0672 1 ! None
; 0673 1 !
; 0674 1 ! Formal Output Parameters:
; 0675 1 !
; 0676 1 ! None
; 0677 1 !
; 0678 1 ! Side Effects:
; 0679 1 !
; 0680 1 ! None
; 0681 1 !
; 0682 1 ! Completion Codes:
; 0683 1 !
; 0684 1 ! None
; 0685 1 ! --

```

[illegible]

```

; 0686 2 BEGIN      ! Routine HS$Start_Error
; 0687 2 MAP
; 0688 2   CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
; 0689 2
; 0690 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;
; 0691 2
; 0692 2   CRD$GA_Current_Diagnostic = .CRD$GA_HS_Current_DDB_Ptr;
; 0693 2   RETURN (CRD$Start_Error ()); ! Let it do the work
; 0694 1 END;      ! Routine HS$Start_Error
  
```

.EXTRN CRD\$START_ERROR

```

      0000 00000 .ENTRY HS$START_ERROR, Save nothing ; 0663
      50 00000000G EF D0 00002   MOVL   CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0690
14  A0 40 8F 88 00009   BISB2   #64, 20(R0) ;
00000000G EF 50 D0 0000E   MOVL   R0, CRD$GA_CURRENT_DIAGNOSTIC ; 0692
00000000G EF 00 FB 00015   CALLS   #0, CRD$START_ERROR ; 0693
      04 0001C   RET ; 0694
  
```

; Routine Size: 29 bytes, Routine Base: CODE + 02C2

```

0695 1 xSBTTL 'HS$Diagnostic_Error Routine'
0696 1
0697 1 GLOBAL ROUTINE HS$Diagnostic_Error (TypeCode, Error_Message_Length, Error_Message_Address) -
0698 1
0699 1 !**
0700 1 ! Functional Description:
0701 1 !
0702 1 ! Describe function of routine
0703 1 !
0704 1 ! Formal Input Parameters:
0705 1 !
0706 1 ! None
0707 1 !
0708 1 ! Formal Output Parameters:
0709 1 !
0710 1 ! None
0711 1 !
0712 1 ! Side Effects:
0713 1 !
0714 1 ! None
0715 1 !
0716 1 ! Completion Codes:
0717 1 !
0718 1 ! None
0719 1 ! --

```

```

: 0720 2 BEGIN      ! Routine HS$Diagnostic_Error
: 0721 2 MAP
: 0722 2   CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
: 0723 2
: 0724 2   !*
: 0725 2   ! Indicate that this is a bad device, we did not finish testing, and that a message was printed.
: 0726 2   !-
: 0727 2
: 0728 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad>      = True;
: 0729 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;
: 0730 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;
: 0731 2
: 0732 2   !*
: 0733 2   ! Print the *FAILED* message.
: 0734 2   !-
: 0735 2
: 0736 2   $CRD_Print (CRD$GT_Fail);
: 0737 2
: 0738 2   IF (.DSA$V_CRD_Trace) THEN
: 0739 3   BEGIN
: 0740 3   BIND
: 0741 3   Error_Text_Ptr = ((.Error_Message_Address) + 1),
: 0742 3   Error_Text_Len = (.Error_Message_Length - 1);
: 0743 3
: P 0744 3   $CRD_Print ($ASCII ('*** The error message text:!!AD!/* End of the error message text!/' ),
: 0745 3   Error_Text_Len, Error_Text_Ptr);
: 0746 2   END;
: 0747 2
: 0748 2   !*
: 0749 2   ! Abort the currently running diagnostic.
: 0750 2   !-
: 0751 2
: 0752 2   $DS_Abort (Arg = Program);
: 0753 2
: 0754 2   !*
: 0755 2   ! NOTE: the above will not return to here. Do the following for BLISS's sake.
: 0756 2   !-
: 0757 2
: 0758 3   RETURN (CRD$K_Return_Success)
: 0759 1 END;      ! Routine HS$Diagnostic_Error

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

20 72 6F 72 72 65 20 65 68 54 20 2A 2A 2A 45 00040 P.AAC: .ASCII \E*** The error message text:!!AD./* E\ ;
2F 21 3A 74 78 65 74 20 65 67 61 73 73 65 6D 0004F ;
    45 20 2A 2A 2A 2F 21 44 41 21 0005E ;
72 6F 72 72 65 20 65 68 74 20 66 6F 20 64 6E 00068 .ASCII \nd of the error message text!/\ ;
2F 21 74 78 65 74 20 65 67 61 73 73 65 6D 20 00077 ;

```

.EXTRN CRD\$GT_FAIL, DS\$ABORT

.PSECT CODE,NOWRT, SHR, PIC,2

ZZ-ENSAB-2.0 HS\$Diagnostic_Error Routine D 8
 CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame D8 Sequence 712
 01-01 HS\$Diagnostic_Error Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (35)

```

    0000 00000 .ENTRY HS$DIAGNOSTIC_ERROR, Save nothing ; 0697
    50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0728
14 A0 50 8F 88 00009 BISB2 #80, 20(R0) ; 0729
14 A0 20 8A 0000E BICB2 #32, 20(R0) ; 0730
    00000000G EF 9F 00012 PUSHAB CRD$GT_FAIL ; 0736
    01 DD 00018 PUSHL #1 ;
    1A DD 0001A PUSHL #26 ;
    00000000G FF 03 FB 0001C CALLS #3, aCRD$PRINT ;
    1D 0000FE02 9F 01 E1 00023 BBC #1, a#X0000FE02, 1$ ; 0738
    51 0C AC 01 C1 0002B ADDL3 #1, ERROR_MESSAGE_ADDRESS, R1 ; 0741
    50 08 AC 01 C3 00030 SUBL3 #1, ERROR_MESSAGE_LENGTH, R0 ; 0742
    03 BB 00035 PUSHR #A<R0,R1> ; 0745
    00000000' EF 9F 00037 PUSHAB P.AAC ;
    01 DD 0003D PUSHL #1 ;
    1A DD 0003F PUSHL #26 ;
    00000000G FF 05 FB 00041 CALLS #5, aCRD$PRINT ;
    00000000G 9F 00 FB 00048 1$: CALLS #0, a#DS$ABORT ; 0752
    50 01 D0 0004F MOVL #1, R0 ; 0758
    04 00052 RET ; 0759
  
```

; Routine Size: 83 bytes. Routine Base: CODE + 02DF

ZZ-ENSAB-2.0 HS\$Preparation_Error Routine E 8
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame E8 Sequence 713
01-01 HS\$Preparation_Error Routine 3-Jan-1985 17:02:07 (DS.CRD.V020)CRDHSACT.B32;1 (36) Page 43

```
: 0760 1 xSBTTL 'HS$Preparation_Error Routine'
: 0761 1
: 0762 1 GLOBAL ROUTINE HS$Preparation_Error =
: 0763 1
: 0764 1 !*
: 0765 1 | Functional Description:
: 0766 1 |
: 0767 1 | Describe function of routine
: 0768 1 |
: 0769 1 | Formal Input Parameters:
: 0770 1 |
: 0771 1 | None
: 0772 1 |
: 0773 1 | Formal Output Parameters:
: 0774 1 |
: 0775 1 | None
: 0776 1 |
: 0777 1 | Side Effects:
: 0778 1 |
: 0779 1 | None
: 0780 1 |
: 0781 1 | Completion Codes:
: 0782 1 |
: 0783 1 | None
: 0784 1 | --
```



```

; 0785 2 BEGIN      ! Routine HS$Preparation_Error
; 0786 2 !+
; 0787 2 ! Note:      ![[01]]
; 0788 2 ! CRD$GA_User_Error_Text      ![[01]]
; 0789 2 ! -> DS$GA_User_Err_Text      ![[01]]
; 0790 2 ! = Address of user's MSGADR ASCII error message string      ![[01]]
; 0791 2 ! or = 0 (if no MSGADR string)      ![[01]]
; 0792 2 !-
; 0793 2
; 0794 2 BIND
; 0795 2   Addr_Of_Addr_Of_Error_Text =      ![[01]]
; 0796 2   (.CRD$GA_User_Error_Text); ! I.e., address of DS$GA_User_Err_Text      ![[01]]
; 0797 2
; 0798 2 MAP
; 0799 2   CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
; 0800 2
; 0801 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete> = False;
; 0802 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Message_Printed> = True;
; 0803 2   CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error> = True;
; 0804 2
; 0805 2 !+
; 0806 2 ! From the above comment, pass either 0 or the address of the user's error text string.      ![[01]]
; 0807 2 !-
; 0808 2
; 0809 2   MEN$Preparation_Err_Text (.Addr_Of_Addr_Of_Error_Text, .CRD$GA_HS_Current_DDB_Ptr); ![[01]]
; 0810 2
; 0811 2   $DS_Abort (Arg = Program); ! Abort the currently running diagnostic
; 0812 2
; 0813 3   RETURN (CRD$K_Repeat_Turing)
; 0814 1 END;      ! Routine HS$Preparation_Error

```

```

.EXTRN CRD$GA_USER_ERROR_TEXT
.EXTRN MEN$PREPARATION_ERR_TEXT

```

```

0000 00000 .ENTRY HS$PREPARATION_ERROR, Save nothing ; 0762
50 00000000G EF D0 00002 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0801
14 A0 20 8A 00009 BICB2 #32, 20(R0) ;
14 A0 42 8F 88 0000D BISB2 #66, 20(R0) ; 0803
50 DD 00012 PUSHL R0 ; 0809
00000000G FF DD 00014 PUSHL @CRD$GA_USER_ERROR_TEXT ;
00000000G EF 02 FB 0001A CALLS #2, MEN$PREPARATION_ERR_TEXT ;
00000000G 9F 00 FB 00021 CALLS #0, @DS$ABORT ; 0811
50 02 D0 00028 MOVL #2, R0 ; 0813
04 0002B RET ; 0814

```

; Routine Size: 44 bytes, Routine Base: CODE + 0332

```

; 0815 1 xSBTTL 'HS$Internal_Error Routine'
; 0816 1
; 0817 1 GLOBAL ROUTINE HS$Internal_Error (TypeCode, Length, Address) =
; 0818 1
; 0819 1 !**
; 0820 1 ! Functional Description:
; 0821 1 !
; 0822 1 ! Describe function of routine
; 0823 1 !
; 0824 1 ! Formal Input Parameters:
; 0825 1 !
; 0826 1 ! None
; 0827 1 !
; 0828 1 ! Formal Output Parameters:
; 0829 1 !
; 0830 1 ! None
; 0831 1 !
; 0832 1 ! Side Effects:
; 0833 1 !
; 0834 1 ! None
; 0835 1 !
; 0836 1 ! Completion Codes:
; 0837 1 !
; 0838 1 ! None
; 0839 1 --

```

ZZ-ENSAB-2.0 HS\$Internal_Error Routine H 8
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame H8
01-01 HS\$Internal_Error Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (39) Page 46

Sequence 716

```
; 0840 2 BEGIN ! Routine HS$Internal_Error
; 0841 2 MEN$Menu_Test_Internal_Error (CRD$K_TQ_Internal_Error, .TypeCode, .Length, .Address);
; 0842 2 CRD$Stop (MENU$K_Exit_Internal_Error);
; 0843 3 RETURN (CRD$K_Return_Failure)
; 0844 1 END; ! Routine HS$Internal_Error
```

```
.EXTRN MEN$MENU_TEST_INTERNAL_ERROR
.EXTRN CRD$STOP
```

```
0000 00000 .ENTRY HS$INTERNAL_ERROR, Save nothing ; 0817
7E 08 AC 7D 00002 MOVQ LENGTH, -(SP) ; 0841
04 AC DD 00006 PUSHL TYPECODE ;
7E 07 CE 00009 MNEGL #7, -(SP) ;
00000000G EF 04 FB 0000C CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
0D DD 00013 PUSHL #13 ; 0842
00000000G EF 01 FB 00015 CALLS #1, CRD$STOP ;
50 D4 0001C CLRL R0 ; 0843
04 0001E RET ; 0844
```

; Routine Size: 31 bytes, Routine Base: CODE + 035E

ZZ-ENSAB-2.0 CRD\$Print_DS_Command Routine

CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Page 47

01-01 CRD\$Print_DS_Command Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (40)

```
; 0845 1 xSBTTL 'CRD$Print_DS_Command Routine'
; 0846 1
; 0847 1 GLOBAL ROUTINE CRD$Print_DS_Command (CLI_Buffer_Length, CLI_Buffer_Address) : NOVALUE =
; 0848 1
; 0849 1 !++
; 0850 1 ! Functional Description:
; 0851 1 !
; 0852 1 ! Print the DS command that was loaded prior to this routine being called, iff the
; 0853 1 ! DSA$V_CRD_Trace flag is set.
; 0854 1 !
; 0855 1 ! Formal Input Parameters:
; 0856 1 !
; 0857 1 ! CLI_Buffer_Length: The length of the CLI command buffer
; 0858 1 ! CLI_Buffer_Address: The address of the CLI command buffer
; 0859 1 !
; 0860 1 ! Formal Output Parameters:
; 0861 1 !
; 0862 1 ! None
; 0863 1 !
; 0864 1 ! Side Effects:
; 0865 1 !
; 0866 1 ! None
; 0867 1 !
; 0868 1 ! Completion Codes:
; 0869 1 !
; 0870 1 ! None
; 0871 1 ! --
```

ZZ-ENSAB-2.0 CRD\$Print_DS_Command Routine

CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 Page 48

```
01-01 CRD$Print DS - Command Routine 3-Jan-1985 17:02:07 [DS-CRD-V020] CRDHSACT.B32:1 (41)
```

```

: 0872 2 BEGIN      ! Routine CRD$Print_DS_Command
: 0873 2   IF (.DSA$V_CRD_Trace) THEN
: 0874 3   BEGIN
: 0875 3       $CRD_Print (CRD$GT_DS_Command_Out, .CLI_Buffer_Length, .CLI_Buffer_Address);
: 0876 2   END;
: 0877 1 END;      ! Routine CRD$Print_DS_Command

```

.EXTRN CRD\$GT DS COMMAND OUT

```

0000 00000 .ENTRY CRD$PRINT_DS_COMMAND, Save nothing ; 0847
15 0000FE02 9F 01 E1 00002 BBC #1, a#^X0000FE02, 1$ ; 0873
7E 04 AC 7D 0000A MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0875
00000000G EF 9F 0000E PUSHAB CRD$GT_DS_COMMAND_OUT ;
01 DD 00014 PUSHL #1 ;
1A DD 00016 PUSHL #26 ;
00000000G FF 05 FB 00018 CALLS #5, aCRD$PRINT ;
04 0001F 1$: RET ; 0877

```

```
; Routine Size: 32 bytes, Routine Base: CODE + 037D
```

: 0878 1 END ! End of CRDHSACT module
: 0879 0 ELUDOM

: PSECT SUMMARY

Name	Bytes	Attributes									
DATA	134	NOVEC,NOWRT,	RD ,NOEXE,	SHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)				
CODE	925	NOVEC,NOWRT,	RD ,	EXE,	SHR,	LCL,	REL, CON, PIC,ALIGN(2)				

Symbol	Type Defined Referenced ...										
\$ASCIC	Macro	Lib02	248	744							
\$CRD_LITERALS	Macro	Lib03	93								
\$CRD_PRINT	Macro	Lib03	207	248	736	744	875				
\$CRD_RETURN_LENGTH_STATUS	Macro	Lib03	387	436	485	538	584				
\$DS_ABORT	KeyWMacr	Lib02	752	811							
\$DS_DSADEF	Macro	Lib02	92								
\$DS_TYPEDEF	Macro	Lib02	207	249	736	745	875				
\$EQULST	Macro	Lib04	93	207	249	736	745	875			
\$ER	Comptime	109									
\$MODULE	Bind	109									
ADDRESS	RoutForm	817	841.								
ADDR_OF_ADDR_OF_ERROR_TEXT	Bind	795	809.								
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	93									
AUTOSK_EXIT_CONTROL_C	Literal	93									
AUTOSK_EXIT_DUMMY_2	Literal	93									
AUTOSK_EXIT_DUMMY_3	Literal	93									
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	93									
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	93									
AUTOSK_EXIT_INTERNAL_ERROR	Literal	93									
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	93									
AUTOSK_EXIT_LAST_REASON	Literal	93	93								
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	93									
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	93									
AUTOSK_EXIT_NOERRORS_PREP	Literal	93									
CLI_BUFFER_ADDRESS	RoutForm	256	280.								
	RoutForm	345	382a= 385.								
	RoutForm	391	431a= 434.								
	RoutForm	440	480a= 483.								
	RoutForm	489	532a= 536.								
	RoutForm	542	579a= 582.								
	RoutForm	847	875.								
CLI_BUFFER_LENGTH	RoutForm	256	280.								
	RoutForm	345	382. 385.								
	RoutForm	391	431. 434.								

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```
01-01 CRD$Print_DS Command Routine 3-Jan-1985 17:02:07 [DS:CRD.V020]CRDHSACT.B32:1 (42)
```

```

RoutForm 440 480. 483.
RoutForm 489 532. 536.
RoutForm 542 579. 582.
RoutForm 847 875.
CRD$DONE_GENERAL_COMS ExtRout Lib03 341c
CRD$GA_CURRENT_DIAGNOSTIC External Lib03 658= 692=
CRD$GA_HS_CURRENT_DDB_PTR External Lib03 137m 150.
Map 181 190a. 206a. 209a= 210a. 211a. 214a. 235. 243a= 244a= 249.
249a.
Map 514 522a.
Map 613
Map 654 656a= 658.
Map 688 690a= 692.
Map 722 728a= 729a= 730a=
Map 799 801a= 802a= 803a= 809.
CRD$GA_HS_CURRENT_HSB_PTR External Lib03 143= 190= 199= 199. 235.
Map 373 376a.
Map 419 422a.
Map 468 471a.
Map 570 573a.
CRD$GA_USER_ERROR_TEXT External Lib03 796.
CRD$GB_CRD_DEBUG External Lib03 246.
CRD$GB_CURRENT_STATE_TABLE External Lib03 622=
CRD$GET_DEVICE_NAME ExtRout Lib03 522c
CRD$GL_CURRENT_GENERAL_COM External Lib03 308. 311= 311.
CRD$GL_HS_CURRENT_HSB_NUMB External Lib03 144= 183. 214. 229= 229.
CRD$GL_HS_CURRENT_STATE External Lib03 220= 309= 619=
CRD$GT_DS_COMMAND_OUT External Lib03 875a
CRD$GT_DS_LOAD_COM External Lib03 370m 379.
CRD$GT_DS_SELECT_COM External Lib03 517m 529.
CRD$GT_DS_SET_EVENT_COM External Lib03 465m 477.
CRD$GT_DS_SET_FLAGS_COM External Lib03 416m 428.
CRD$GT_DS_START_COM External Lib03 567m 576.
CRD$GT_FAIL External Lib03 736a
CRD$GT_PASS External Lib03 207a
CRD$INIT_DDB_STATUS ExtRout Lib03 150c
CRD$K_ACTION_EQL_DO_NOTHING Literal 93
CRD$K_ACTION_RANGE_ERROR Literal 93
CRD$K_ADVANCE_DIAGNOSTIC Literal 93
CRD$K_ADVANCE_GENERAL_COM Literal 93
CRD$K_ADVANCE_STATE Literal 93
CRD$K_ALLOCATION_ERROR Literal 93
CRD$K_ASSIGN_PTABLE_PTRS Literal 93
CRD$K_AUTOSIZER_ERROR Literal 93
CRD$K_AUTOSIZER_SET_FLAGS Literal 93
CRD$K_BAD_ACTION_NUMBER Literal 93
CRD$K_BAD_TYPECODE_ERROR Literal 93
CRD$K_BASE_SYSTEM_IDC Literal 93
CRD$K_BASE_SYSTEM_LESI Literal 93
CRD$K_BASE_SYSTEM_NULL Literal 93
CRD$K_BASE_SYSTEM_UDA_0 Literal 93
CRD$K_BASE_SYSTEM_UDA_1 Literal 93
CRD$K_BASE_SYSTEM_UDA_2 Literal 93

```

Symbol	Type	Defined	Referenced ...
CRD\$K_BASE_SYSTEM_UDA_3	Literal	93	
CRD\$K_CRD_INITIALIZATION	Literal	93	
CRD\$K_CREATE_HST	Literal	93	
CRD\$K_DATA_LENGTH_ERROR	Literal	93	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	93	
CRD\$K_DDB_BLINK	Literal	93	
CRD\$K_DDB_FLINK	Literal	93	
CRD\$K_DDB_LAST_ENTRY	Literal	93	
CRD\$K_DDB_MEMORY_SIZE	Literal	93	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	93	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	93	190
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	93	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	93	214
CRD\$K_DDB_PTABLE_ENTRY	Literal	93	522
CRD\$K_DDB_STATUS	Literal	93	206 209 210 211 243 244 249 656 690 728
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	93	
CRD\$K_DEVICE_NAME	Literal	93	
CRD\$K_DIAGNOSTIC_ERROR	Literal	93	
CRD\$K_DIAGNOSTIC_NAME	Literal	93	376
CRD\$K_DONE_GENERAL_COMS	Literal	93	
CRD\$K_DO_NOTHING	Literal	93	
CRD\$K_DS_COMMAND_SIZE	Literal	Lib03	387 436 485 538 584
CRD\$K_DUMMY_10	Literal	93	
CRD\$K_DUMMY_11	Literal	93	
CRD\$K_DUMMY_12	Literal	93	
CRD\$K_DUMMY_13	Literal	93	
CRD\$K_DUMMY_3	Literal	93	
CRD\$K_DUMMY_4	Literal	93	
CRD\$K_DUMMY_5	Literal	93	
CRD\$K_DUMMY_6	Literal	93	
CRD\$K_DUMMY_7	Literal	93	
CRD\$K_DUMMY_8	Literal	93	
CRD\$K_DUMMY_9	Literal	93	
CRD\$K_EXIT_CRD	Literal	93	
CRD\$K_HOOK_POINT	Literal	93	
CRD\$K_HS_INTERNAL_ERROR	Literal	93	
CRD\$K_IDC_EVDLB	Literal	93	
CRD\$K_IDC_EVDLC	Literal	93	
CRD\$K_IDC_EVDLD	Literal	93	
CRD\$K_IDC_EVRAD_0	Literal	93	
CRD\$K_IDC_EVRAD_1	Literal	93	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	93	
CRD\$K_INTERNAL_ERROR	Literal	93	
CRD\$K_LAST_ACTION_ROUTINE	Literal	93	
CRD\$K_LAST_ENTRY	Literal	93	
CRD\$K_LAST_FUNCTION	Literal	93	
CRD\$K_LAST_HOOK_POINT	Literal	93	
CRD\$K_LAST_INTERNAL_ERROR	Literal	93	
CRD\$K_LAST_TYPE	Literal	93	
CRD\$K_LESI_ENWCA	Literal	93	
CRD\$K_LESI_EVRMB_0	Literal	93	
CRD\$K_LESI_EVRMB_1	Literal	93	

Symbol	Type	Defined	Referenced	...
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	93		
CRD\$K_LEVEL_4_PASSED	Literal	93		
CRD\$K_LOAD_AUTOSIZER	Literal	93		
CRD\$K_LOAD_ERROR	Literal	93		
CRD\$K_LOAD_GENERAL_COM	Literal	93		
CRD\$K_LOAD_LOAD_COM	Literal	93		
CRD\$K_LOAD_SELECT_COM	Literal	93		
CRD\$K_LOAD_SET_EVENT_COM	Literal	93		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	93		
CRD\$K_LOAD_START_COM	Literal	93		
CRD\$K_LOAD_SUP_FILE	Literal	93		
CRD\$K_MM_INTERNAL_ERROR	Literal	93		
CRD\$K_NEW_LINE	Literal	93		
CRD\$K_NUMB_GENERAL_COMMANDS	Literal	Lib03	308	
CRD\$K_NUMB_SUPPORT_ENTRIES	Literal	Lib03	199	
CRD\$K_PREPARATION_ERROR	Literal	93		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	93		
CRD\$K_REPEAT_TURING	Literal	Lib03	152	252 313 425 474 625 813
CRD\$K_RETURN_FAILURE	Literal	Lib03	843	
CRD\$K_RETURN_SUCCESS	Literal	Lib03	758	
CRD\$K_RUNTIME	Literal	93		
CRD\$K_SAME_LINE	Literal	93		
CRD\$K_SET_EVENT_ARGS	Literal	93	471	
CRD\$K_SET_FLAGS_ARGS	Literal	93	422	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	93		
CRD\$K_START	Literal	93		
CRD\$K_START_AUTOSIZER	Literal	93		
CRD\$K_START_ERROR	Literal	93		
CRD\$K_START_QUALIFIERS	Literal	93	573	
CRD\$K_STAR_LINE	Literal	93		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	93		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	93		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	93		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	93		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	93		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	93		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	93		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	93		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	93		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	93		
CRD\$K_STATE_DUMMY_1	Literal	93		
CRD\$K_STATE_DUMMY_10	Literal	93		
CRD\$K_STATE_DUMMY_12	Literal	93		
CRD\$K_STATE_DUMMY_13	Literal	93		
CRD\$K_STATE_DUMMY_2	Literal	93		
CRD\$K_STATE_DUMMY_3	Literal	93		
CRD\$K_STATE_DUMMY_4	Literal	93		
CRD\$K_STATE_DUMMY_6	Literal	93		
CRD\$K_STATE_DUMMY_7	Literal	93		
CRD\$K_STATE_DUMMY_8	Literal	93		
CRD\$K_STATE_EXIT_CRD	Literal	93		
CRD\$K_STATE_INTERNAL_ERROR	Literal	93		
CRD\$K_STATE_LAST_STATE	Literal	93		

Symbol	Type	Defined	Referenced	...
CRD\$K.STATE.LEVEL_4.PASSED	Literal	93		
CRD\$K.STATE.LOAD.AUTOSIZER	Literal	93		
CRD\$K.STATE.LOAD.ERROR	Literal	93		
CRD\$K.STATE.LOAD.GENERAL.COM	Literal	93		
CRD\$K.STATE.LOAD.LOAD.COM	Literal	93		
CRD\$K.STATE.LOAD.SELECT.COM	Literal	93		
CRD\$K.STATE.LOAD.SET.EVENT.COM	Literal	93		
CRD\$K.STATE.LOAD.SET.FLAGS.COM	Literal	93		
CRD\$K.STATE.LOAD.START.COM	Literal	93		
CRD\$K.STATE.PREPARATION.ERROR	Literal	93		
CRD\$K.STATE.SET.UP.DIAGNOSTIC	Literal	93		
CRD\$K.STATE.START	Literal	93		
CRD\$K.STATE.START.AUTOSIZER	Literal	93		
CRD\$K.STATE.START.ERROR	Literal	93		
CRD\$K.SUCCESS	Unbound	387	436 485 538 584	
CRD\$K.SUCCESS	Literal Lib03	387 436 485 538 584		
CRD\$K.TEST.START.TEXT	Literal	93		
CRD\$K.TQ.INTERNAL.ERROR	Literal	93	841	
CRD\$K.TYPECODE	Literal	93		
CRD\$K.UDA.0.EVDLB	Literal	93		
CRD\$K.UDA.0.EVDLC	Literal	93		
CRD\$K.UDA.0.EVDLD	Literal	93		
CRD\$K.UDA.0.EVRLA_0	Literal	93		
CRD\$K.UDA.0.LAST.DIAGNOSTIC	Literal	93		
CRD\$K.UDA.1.EVDLB	Literal	93		
CRD\$K.UDA.1.EVDLC	Literal	93		
CRD\$K.UDA.1.EVDLD	Literal	93		
CRD\$K.UDA.1.EVRLA_0	Literal	93		
CRD\$K.UDA.1.EVRLA_1	Literal	93		
CRD\$K.UDA.1.LAST.DIAGNOSTIC	Literal	93		
CRD\$K.UDA.2.EVDLB	Literal	93		
CRD\$K.UDA.2.EVDLC	Literal	93		
CRD\$K.UDA.2.EVDLD	Literal	93		
CRD\$K.UDA.2.EVRLA_0	Literal	93		
CRD\$K.UDA.2.LAST.DIAGNOSTIC	Literal	93		
CRD\$K.UDA.3.EVDLB	Literal	93		
CRD\$K.UDA.3.EVDLC	Literal	93		
CRD\$K.UDA.3.EVDLD	Literal	93		
CRD\$K.UDA.3.EVRLA_0	Literal	93		
CRD\$K.UDA.3.EVRLA_1	Literal	93		
CRD\$K.UDA.3.LAST.DIAGNOSTIC	Literal	93		
CRD\$LOAD.ERROR	ExtRout Lib03	659c		
CRD\$LOAD.GENERAL.COM	ExtRout Lib03	280c		
CRD\$PRINT	External Lib03	207ac 249ac	736ac 745ac 875ac	
CRD\$PRINT_DS.COMMAND	GlobRout	847 Lib03e	89f 385c 434c 483c 536c 582c	
CRD\$START.ERROR	ExtRout Lib03	693c		
CRD\$STOP	ExtRout Lib03	842c		
DDB\$V.STATUS.DEVICE.BAD	Macro Lib03	209	210 728	
DDB\$V.STATUS.DEV.TEST.COMPLETE	Macro Lib03	730	801	
DDB\$V.STATUS.DIAGNOSTIC.ERROR	Macro Lib03	211	243	
DDB\$V.STATUS.MESSAGE.PRINTED	Macro Lib03	206	244 656 690 729 802	
DDB\$V.STATUS.PREPARATION.ERROR	Macro Lib03	803		
DEVICE_DATA_BLOCK.STRUCTURE	Structur Lib03	137	181 514 613 654 688 722 799	

Symbol	Type	Defined	Referenced	...
DEVICE_NAME_ASCIC_PTR	Local	520	522=	526m 530a.
DIAG_NAME	Bind	376	380.	
DS\$ABORT	ExtRout	752	752c	811e 811c
DS\$K_PRINTB	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_PRINTF	Literal	207	207	
Literal		249	249	
Literal		736	736	
Literal		745	745	
Literal		875	875	
DS\$K_PRINTI	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_PRINTX	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_ABORT_PROGRAM	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_ABORT_TEST	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_COMMAND_ERR	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_COMMAND_OUT	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_CRD_AUTOTEST	Literal	207	207	
Literal		249	249	
Literal		736	736	
Literal		745	745	
Literal		875	875	
DS\$K_TYPE_DS_PROMPT	Literal	207		
Literal		249		
Literal		736		
Literal		745		
Literal		875		

Symbol	Type	Defined	Referenced ...
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DS\$K_TYPE_DS_START	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRDEV	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRHARD	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERROR_BODY	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERROR_END	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRPREP	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRSOFT	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRSUP	Literal	207	
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Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERRSYS	Literal	207	
-------------------	---------	-----	--

Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_ERR_HALT	Literal	207	
---------------------	---------	-----	--

Literal	249
Literal	736
Literal	745
Literal	875

DS\$K_TYPE_EXCEPTION	Literal	207	
----------------------	---------	-----	--

Literal	249
Literal	736

Symbol Type Defined Referenced ...

```

    Literal 745
    Literal 875
DS$K_TYPE_EXCEPTION_HEAD Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_FIRST_PASS Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_GENERAL Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_GENERAL_ERROR Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_NO_TESTS Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_PARAM_ERROR Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_PROGRAM_END Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_PROGRAM_INFO Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_PROGRAM_START Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_QIO_INVADP Literal 207
    Literal 249
    Literal 736
    Literal 745
    Literal 875
DS$K_TYPE_QIO_NODRIVER Literal 207
  
```

Symbol	Type	Defined	Referenced	...
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_QIO_WRONGVER	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SCRIPT_ECHO	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SCRIPT_PNF	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SCRIPT_PROMPT	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SCRIPT_SKIP	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SEQUENCE_ERROR	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_START_ERR	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_START_LIST	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_SUMMARY	Literal		207	
Literal		249		
Literal		736		
Literal		745		
Literal		875		
DS\$K_TYPE_USER_PROMPT	Literal		207	
Literal		249		
Literal		736		
Literal		745		

Symbol	Type	Defined	Referenced	...
Literal	875			
DS\$AL_APTMAIL	Bind	92	92	
DS\$GL_APTCOM	Bind	92		
DS\$GL_DEVLEN	Bind	92		
DS\$GL_DEVNAM	Bind	92		
DS\$GL_ERRNO	Bind	92		
DS\$GL_EVENT	Bind	92		
DS\$GL_FLAGS	Bind	92	738	873
DS\$GL_MSGPTR	Bind	92		
DS\$GL_MSGTYP	Bind	92		
DS\$GL_PASSES	Bind	92		
DS\$GL_PASSNO	Bind	92		
DS\$GL_SECTNO	Bind	92		
DS\$GL_SID	Bind	92		
DS\$GL_SUBTNO	Bind	92		
DS\$GL_TESTNO	Bind	92		
DS\$GL_UNITS	Bind	92		
DS\$V_CRD_TRACE	Macro	Lib02	738	873
ERROR_MESSAGE_ADDRESS	RoutForm	697	741.	
ERROR_MESSAGE_LENGTH	RoutForm	697	742.	
ERROR_TEXT_LEN	Bind	742	745a	
ERROR_TEXT_PTR	Bind	741	745a	
FALSE	Literal	Lib03	243	244 730 801
GET1ST	Macro	Lib04	93	207 249 736 745 875
GET2ND	Unbound		93	207 249 736 745 875
HARDWARE_SUPPORT_VECTOR	Structur	Lib03	373	419 468 570
HSS\$ADVANCE_DIAGNOSTIC	GlobRout	156	Lib03e	69f
HSS\$ADVANCE_GENERAL_COM	GlobRout	284	Lib03e	72f
HSS\$CHANGE_TABLE	GlobRout	588	Lib03e	81f
HSS\$DIAGNOSTIC_ERROR	GlobRout	697	Lib03e	85f
HSS\$DONE_GENERAL_COMS	GlobRout	317	Lib03e	73f
HSS\$INIT_HS	GlobRout	112	Lib03e	68f
HSS\$INTERNAL_ERROR	GlobRout	817	Lib03e	87f
HSS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		93	
HSS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		93	
HSS\$K_ACTION_ADVANCE_STATE	Literal		93	
HSS\$K_ACTION_CHANGE_TABLE	Literal		93	
HSS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		93	
HSS\$K_ACTION_DONE_GENERAL_COMS	Literal		93	
HSS\$K_ACTION_DO_NOTHING	Literal		93	
HSS\$K_ACTION_DUMMY_3	Literal		93	
HSS\$K_ACTION_DUMMY_4	Literal		93	
HSS\$K_ACTION_DUMMY_5	Literal		93	
HSS\$K_ACTION_DUMMY_6	Literal		93	
HSS\$K_ACTION_INIT_HS	Literal		93	
HSS\$K_ACTION_INTERNAL_ERROR	Literal		93	
HSS\$K_ACTION_LAST_ACTION	Literal		93	
HSS\$K_ACTION_LOAD_ERROR	Literal		93	
HSS\$K_ACTION_LOAD_GENERAL_COM	Literal		93	
HSS\$K_ACTION_LOAD_LOAD_COM	Literal		93	
HSS\$K_ACTION_LOAD_SELECT_COM	Literal		93	
HSS\$K_ACTION_LOAD_SET_EVENT_COM	Literal		93	
HSS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal		93	

Symbol	Type	Defined	Referenced ...

HSSK_ACTION_LOAD_START_COM	Literal	93	
HSSK_ACTION_PREPARATION_ERROR	Literal	93	
HSSK_ACTION_START_ERROR	Literal	93	
HSSK_STATE_ADVANCE_DIAGNOSTIC	Literal	93	
HSSK_STATE_ADVANCE_GENERAL_COM	Literal	93	
HSSK_STATE_CHANGE_TABLE	Literal	93	220
HSSK_STATE_DIAGNOSTIC_ERROR	Literal	93	
HSSK_STATE_DIAGNOSTIC_RUNNING	Literal	93	
HSSK_STATE_DONE_GENERAL_COMS	Literal	93	309
HSSK_STATE_DUMMY_1	Literal	93	
HSSK_STATE_DUMMY_2	Literal	93	
HSSK_STATE_DUMMY_3	Literal	93	
HSSK_STATE_DUMMY_4	Literal	93	
HSSK_STATE_DUMMY_6	Literal	93	
HSSK_STATE_INIT_HS	Literal	93	619
HSSK_STATE_INTERNAL_ERROR	Literal	93	
HSSK_STATE_LAST_STATE	Literal	93	
HSSK_STATE_LOAD_ERROR	Literal	93	
HSSK_STATE_LOAD_GENERAL_COM	Literal	93	
HSSK_STATE_LOAD_LOAD_COM	Literal	93	
HSSK_STATE_LOAD_SELECT_COM	Literal	93	
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	93	
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	93	
HSSK_STATE_LOAD_START_COM	Literal	93	
HSSK_STATE_PREPARATION_ERROR	Literal	93	
HSSK_STATE_START_ERROR	Literal	93	
HSSLOAD_ERROR	GlobRout	629 Lib03e	83f
HSSLOAD_GENERAL_COM	GlobRout	256 Lib03e	71f
HSSLOAD_LOAD_COM	GlobRout	345 Lib03e	75f
HSSLOAD_SELECT_COM	GlobRout	489 Lib03e	78f
HSSLOAD_SET_EVENT_COM	GlobRout	440 Lib03e	77f
HSSLOAD_SET_FLAGS_COM	GlobRout	391 Lib03e	76f
HSSLOAD_START_COM	GlobRout	542 Lib03e	79f
HSSPREPARATION_ERROR	GlobRout	762 Lib03e	86f
HSSSTART_ERROR	GlobRout	663 Lib03e	84f
LENGTH	RoutForm	817	841.
MEN\$FNCTST TESTSTRT TEXT	ExtRout	Lib03	235c
MEN\$K_HS_STATE_TABLE	Literal	93	
MEN\$K_MM_STATE_TABLE	Literal	93	
MEN\$K_TQ_STATE_TABLE	Literal	93	622
MEN\$MENU TEST INTERNAL_ERROR	ExtRout	Lib03	841c
MEN\$PREPARATION_ERR TEXT	ExtRout	Lib03	809c
MENUSK_EXIT_AUTOSIZER_ERROR	Literal	93	
MENUSK_EXIT_INTERNAL_ERROR	Literal	93	842
MENUSK_EXIT_LAST_REASON	Literal	93	
MENUSK_EXIT_OPERATOR_ABORT	Literal	93	
MENUSK_EXIT_OPERATOR_STOP	Literal	93	
MENUSK_EXIT_SUP_FILE_LOAD_ERR	Literal	93	
MENUSK_EXIT_SUP_FILE_NOT_FOUND	Literal	93	
MM\$K_ACTION_ADVANCE_STATE	Literal	93	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	93	
MM\$K_ACTION_BUILD_DDBS	Literal	93	
MM\$K_ACTION_BUILD_HSTS	Literal	93	

Symbol	Type	Defined	Referenced	...
MM\$K_ACTION_CHANGE_TABLE	Literal	93		
MM\$K_ACTION_DONE_INITS	Literal	93		
MM\$K_ACTION_DO_NOTHING	Literal	93		
MM\$K_ACTION_DUMMY_3	Literal	93		
MM\$K_ACTION_DUMMY_4	Literal	93		
MM\$K_ACTION_DUMMY_5	Literal	93		
MM\$K_ACTION_DUMMY_6	Literal	93		
MM\$K_ACTION_DUMMY_7	Literal	93		
MM\$K_ACTION_DUMMY_8	Literal	93		
MM\$K_ACTION_INTERNAL_ERROR	Literal	93		
MM\$K_ACTION_LAST_ACTION	Literal	93		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	93		
MM\$K_ACTION_MENU_PROMPT	Literal	93		
MM\$K_ACTION_PRINT_MENU	Literal	93		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	93		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	93		
MM\$K_ACTION_START_AUTOSIZER	Literal	93		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	93		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	93		
MM\$K_STATE_BUILD_DDBS	Literal	93		
MM\$K_STATE_BUILD_HSTS	Literal	93		
MM\$K_STATE_CHANGE_TABLE	Literal	93		
MM\$K_STATE_DONE_INITS	Literal	93		
MM\$K_STATE_DUMMY_1	Literal	93		
MM\$K_STATE_DUMMY_2	Literal	93		
MM\$K_STATE_DUMMY_3	Literal	93		
MM\$K_STATE_DUMMY_5	Literal	93		
MM\$K_STATE_DUMMY_7	Literal	93		
MM\$K_STATE_DUMMY_8	Literal	93		
MM\$K_STATE_INTERNAL_ERROR	Literal	93		
MM\$K_STATE_LAST_STATE	Literal	93		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	93		
MM\$K_STATE_MENU_PROMPT	Literal	93		
MM\$K_STATE_PRINT_MENU	Literal	93		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	93		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	93		
MM\$K_STATE_START	Literal	93		
MM\$K_STATE_START_AUTOSIZER	Literal	93		
MODNAM	Macro	Lib01 109		
NUL2ND	Macro	Lib04 93	207 249 736 745 875	
SET_EVENT_ARGS	Bind	471 473 478		
SET_FLAGS_ARGS	Bind	422 424 429		
START_QUALIFIERS	Bind	573 577		
TQ\$K_ACTION_ADVANCE_STATE	Literal	93		
TQ\$K_ACTION_CHANGE_TABLE	Literal	93		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	93		
TQ\$K_ACTION_DO_NOTHING	Literal	93		
TQ\$K_ACTION_DUMMY_3	Literal	93		
TQ\$K_ACTION_DUMMY_4	Literal	93		
TQ\$K_ACTION_DUMMY_5	Literal	93		
TQ\$K_ACTION_GET_DDB	Literal	93		
TQ\$K_ACTION_INIT_TQ	Literal	93		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	93		

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_LAST_ACTION	Literal	93		
TQ\$K_STATE_CHANGE_TABLE	Literal	93		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	93		
TQ\$K_STATE_DUMMY_1	Literal	93		
TQ\$K_STATE_DUMMY_2	Literal	93		
TQ\$K_STATE_DUMMY_3	Literal	93		
TQ\$K_STATE_DUMMY_4	Literal	93		
TQ\$K_STATE_DUMMY_5	Literal	93		
TQ\$K_STATE_GET_DDB	Literal	93		
TQ\$K_STATE_INIT_TQ	Literal	93		
TQ\$K_STATE_INTERNAL_ERROR	Literal	93	93	
TQ\$K_STATE_LAST_STATE	Literal	93		
TRUE	Literal	Lib03 656	690 728 729 802 803	
TYPECODE	RoutForm	697		
	RoutForm	817 841.		

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]	CRDHSACT.B32;1
2	Module	CRDHSACT	
55	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]	DS.L32;17
58	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]	DIAG.L32;30
61	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]	CRD.L32;1
64	Library #4	SYSSCOMMON:[SYSLIB]	LIB.L32;2
879	Eludom	CRDHSACT	

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- a Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics				
----- Symbols -----				
File	Total	Loaded	Percent	Pages Processing Mapped Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46 00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30				

ZZ-ENSAB-2.0 CRD\$Print_DS_Command Routine K 9
CRDHSACT *** CRDHSACT Module 19-Sep-1985 16:52:08 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame K9 Sequence 732
01-01 CRD\$Print_DS_Command Routine 3-Jan-1985 17:02:07 [DS.CRD.V020]CRDHSACT.B32;1 (42) Page 62

:	923	5	0	94	00:00.2			
:	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1							
:	486	64	13	62	00:00.1			
:	SYS\$COMMON:[SYSLIB]LIB.L32;2 18619 3 0 1000 00:04.3							

; COMMAND QUALIFIERS

; BLISS CRDHSACT.B32/LIST=CRDHSACT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDHSACT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 925 code + 134 data bytes
; Run Time: 00:36.6
; Elapsed Time: 01:14.5
; Lines/CPU Min: 1439
; Lexemes/CPU-Min: 54995
; Memory Used: 220 pages
; Compilation Complete

```
; 0001 0 *TITLE '*** CRDINIT Module'
; 0002 0 MODULE CRDINIT ( ! The initialization routine(s) for CRD
; 0003 0 IDENT = '01-06'
; 0004 0 ) =
; 0005 0 !**
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !
; 0024 0 !**
; 0025 0 ! Facility:
; 0026 0 !
; 0027 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
; 0028 0 !
; 0029 0 ! Abstract:
; 0030 0 !
; 0031 0 ! This module contains the routine(s) necessary to initialize CRD.
; 0032 0 !
; 0033 0 ! Author:
; 0034 0 !
; 0035 0 ! Jack Stansbury
; 0036 0 !
; 0037 0 ! Creation Date:
; 0038 0 !
; 0039 0 ! 1-April-1982
; 0040 0 !
; 0041 0 ! Version:
; 0042 0 !
; 0043 0 ! 6.9
; 0044 0 !
; 0045 0 ! Modified By:
; 0046 0 !
; 0047 0 ! 01 Jack Stansbury, Version 1.1, July 25, 1982
; 0048 0 ! Added the CRD$Common_Initializations routine. This contains code that
; 0049 0 ! will be excuted for both Menu Test and Auto Test. This routine is passed the address
; 0050 0 ! of the ^C handler routine, since Menu Test and Auto Test use different handler
; 0051 0 ! routines.
; 0052 0 !
; 0053 0 ! 02 Jack Stansbury, Version 1.1, July 25, 1982
; 0054 0 ! Changed the above routine to return a flag saying whether Menu or Auto Test was running.
; 0055 0 ! This is used by both the main Menu and main Auto initialization routines to set the
```

```

: 0056 0 | appropriate DSA flag bit.
: 0057 0 |
: 0058 0 | 03 Jack Stansbury, Version 1.1, July 25, 1982
: 0059 0 | Added the CRD$GT_Which_CRD global string pointer. Also, changed what I did above since
: 0060 0 | the only routines that will be calling the CRD$Common_Initializations routine is the two
: 0061 0 | init routines for Menu and Auto. Since these two routines already know which DSA bit should
: 0062 0 | be set, there is no need to save this information.
: 0063 0 |
: 0064 0 | 04 Jack Stansbury, Version 1.1, July 27, 1982
: 0065 0 | Changed the establishment of the VDS ^C handler routine.
: 0066 0 |
: 0067 0 | 05 Jack Stansbury, Version 1.1, August 19, 1982
: 0068 0 | Took out the CRD$GB_CRD_Debug variable, because it is in the CRDVECS module now.
: 0069 0 |
: 0070 0 | 06 John Ciukaj Version 1.2 4-Apr-1982
: 0071 0 | - Changed references to CRD bits in DSA Flags to
: 0072 0 | distinguish between Offline and online
: 0073 0 | - In CRD$CRD_Initialization do not invoke CRD$Build_DDBs ();
: 0074 0 | Must wait for Autosizer to be run in order to determine
: 0075 0 | which Hardware Support Table to use.
: 0076 0 |
: 0077 0 |
: 0078 0 | --
: 0079 0 xSBTTL 'Libraries'
: 0080 1 BEGIN ! Begin the CRDINIT module
: 0081 1
: 0082 1 LIBRARY
: 0083 1 '$CRD';
: 0084 1
: 0085 1 LIBRARY
: 0086 1 '$DS';
: 0087 1
: 0088 1 LIBRARY
: 0089 1 '$Diag';
: 0090 1
: 0091 1 LIBRARY
: 0092 1 'Sys$Library:Lib';
: 0093 1 xSBTTL 'Table of Contents'
: 0094 1
: 0095 1 FORWARD ROUTINE
: 0096 1 CRD$Common_Initializations : ADDRESSING_MODE (LONG_RELATIVE), !![01]
: 0097 1 ! The common initializations for Menu and Auto Test. !![01]
: 0098 1
: 0099 1 CRD$CRD_Initialization : ADDRESSING_MODE (LONG_RELATIVE);
: 0100 1 ! The initialization routine for the CRD Auto Test code.
: 0101 1 xSBTTL 'Included Macros and Literals'
: 0102 1
: 0103 1 $CRD_Literals; ! Define some literals for CRD
: 0104 1 $DS_DSADef; ! Define the DSA flag bits
: 0105 1 xSBTTL 'Psect Definitions'
: 0106 1
: 0107 1 PSECT
: 0108 1 PLIT = Data (NOEXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0109 1
: 0110 1 PSECT

```

```

: 0111 1 CODE = Code ( EXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
: 0112 1
: 0113 1 PSECT
: 0114 1 OWN = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0115 1
: 0116 1 PSECT
: 0117 1 GLOBAL = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0118 1 xSBTTL 'Module-Global Static Storage'
: 0119 1
: 0120 1 ModNam ('CRDINIT'); ! Module name for ErrSup macro
: 0121 1 xSBTTL 'Global Storage'
: 0122 1
: 0123 1 GLOBAL
: 0124 1 CRD$GT_Which_CRD, ! Points to a string containing either 'MENU' or 'AUTO'. ![03]
: 0125 1
: 0126 1 CRD$GL_Saved_DSA_Flags; ! To save the settings of the DSA flags
: 0127 1 xSBTTL 'CRD$CRD_Initialization Routine'
: 0128 1
: 0129 1 GLOBAL ROUTINE CRD$CRD_Initialization =
: 0130 1
: 0131 1 !++
: 0132 1 ! Functional Description:
: 0133 1
: 0134 1 ! This routine is the main initialization routine for the CRD Auto Test code. This routine is NOT called ![03]
: 0135 1 ! from the Menu Test routines!!!!!!
: 0136 1 !
: 0137 1 ! Formal Parameters:
: 0138 1
: 0139 1 ! None
: 0140 1
: 0141 1 ! Side Effects:
: 0142 1
: 0143 1 ! Plenty
: 0144 1
: 0145 1 ! Completion Codes:
: 0146 1
: 0147 1 ! 1 => The initialization succeeded
: 0148 1 ! 0 => The initialization failed
: 0149 1 !--
: 0150 2 BEGIN ! Routine CRD$CRD_Initialization
: 0151 2 CRD$Common_Initializations (CRD$Control_C_Handler); ![03]
: 0152 2 ! Perform common ones first ![01]
: 0153 2
: 0154 2 CRD$Init_General_Com_Table (); ! Initialize the General_Commands table and data structures
: 0155 2
: 0156 2 IF .CRD$GB_CRD_Debug THEN
: 0157 2 CRD$Print_Command_Table ();
: 0158 2 ! Print the contents of the general command table
: 0159 2
: 0160 2 IF .CRD$GB_CRD_Debug THEN
: 0161 2 CRD$Print_PTables (); ! Print the contents of the PTables
: 0162 2
: 0163 2 CRD$Init_State_Table (); ! Initialize the State_Table
: 0164 2
: 0165 2 CRD$Build_Support_Table (); ! Build the Hardware Support table

```

```

: 0166 2
: 0167 2
: 0168 2 IF .CRD$GB_CRD_Debug THEN
: 0169 2   CRD$Print_Hardware_Support ();
: 0170 2   ! Print the Hardware Support table
: 0171 2
: 0172 2 DSA$V_Binary = On; ! Turn these two back on now after the initialization is all done.
: 0173 2 DSA$V_CRD_AutoTest_Off = On; ! Leave this on for the duration of the CRD Auto Test execution. !{06}
: 0174 2
: 0175 3 RETURN (CRD$K_Success)
: 0176 1 END; ! Routine CRD$CRD_Initialization

```

```
.TITLE CRDINIT *** CRDINIT Module
```

```
.IDENT \01-06\
```

```
.PSECT WORK,NOEXE,2
```

```
00000 CRD$GT_WHICH_CRD::
```

```
.BLKB 4
```

```
00004 CRD$GL_SAVED_DSA_FLAGS::
```

```
.BLKB 4
```

```
.PSECT DATA,NOWRT,NOEXE, SHR,2
```

```
54 49 4E 49 44 52 43 07 00000 P.AAA: .ASCII <7>\CRDINIT\ ;
```

```
DSA$AL_APTMAIL= 65024
```

```
DSA$GL_FLAGS= 65024
```

```
DSA$GL_APTCOM= 65028
```

```
DSA$GL_PASSES= 65032
```

```
DSA$GL_UNITS= 65036
```

```
DSA$GL_SECTNO= 65040
```

```
DSA$GL_SID= 65044
```

```
DSA$GL_MSGTYP= 65088
```

```
DSA$GL_ERRNO= 65092
```

```
DSA$GL_EVENT= 65096
```

```
DSA$GL_SUBTNO= 65100
```

```
DSA$GL_TESTNO= 65104
```

```
DSA$GL_PASSNO= 65108
```

```
DSA$GL_DEVLEN= 65112
```

```
DSA$GL_DEVNAM= 65116
```

```
DSA$GL_MSGPTR= 65128
```

```
$MODULE= P.AAA
```

```
.EXTRN CRD$COMMON_INITIALIZATIONS
```

```
.EXTRN CRD$CRD_INITIALIZATION
```

```
.EXTRN CRD$CONTROL_C_HANDLER
```

```
.EXTRN CRD$INIT_GENERAL_COM_TABLE
```

```
.EXTRN CRD$GB_CRD_DEBUG
```

```
.EXTRN CRD$PRINT_COMMAND_TABLE
```

```
.EXTRN CRD$PRINT_PTABLER
```

```
.EXTRN CRD$INIT_STATE_TABLE
```

```
.EXTRN CRD$BUILD_SUPPORT_TABLE
```

```
.EXTRN CRD$PRINT_HARDWARE_SUPPORT
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 .ENTRY CRD$CRD_INITIALIZATION, Save nothing ; 0129
00000000G EF 9F 00002 PUSHAB CRD$CONTROL_C_HANDLER ; 0151
00000000V EF 01 FB 00008 CALLS #1, CRD$COMMON_INITIALIZATIONS ;
00000000G EF 00 FB 0000F CALLS #0, CRD$INIT_GENERAL_COM_TABLE ; 0154
00000000G EF E9 00016 BLBC CRD$GB CRD DEBUG, 1$ ; 0156
00000000G EF 00 FB 0001D CALLS #0, CRD$PRINT_COMMAND_TABLE ; 0157
00000000G EF E9 00024 BLBC CRD$GB CRD DEBUG, 1$ ; 0160
00000000G EF 00 FB 0002B CALLS #0, CRD$PRINT_PTABES ; 0161
00000000G EF 00 FB 00032 1$: CALLS #0, CRD$INIT_STATE_TABLE ; 0163
00000000G EF 00 FB 00039 CALLS #0, CRD$BUILD_SUPPORT_TABLE ; 0165
00000000G EF E9 00040 BLBC CRD$GB CRD DEBUG, 2$ ; 0168
00000000G EF 00 FB 00047 CALLS #0, CRD$PRINT_HARDWARE_SUPPORT ; 0169
0000FE00 9F 0802 8F A8 0004E 2$: BLSW2 #2050, @#^X0000FE00 ; 0173
04 0005A RET ; 0176

```

; Routine Size: 91 bytes, Routine Base: CODE + 0000

```

; 0177 1 *SBTTL 'CRD$Common_Initializations Routine' ![[01]]
; 0178 1
; 0179 1 GLOBAL ROUTINE CRD$Common_Initializations (Control_C_Handler_Address) = ![[01]]
; 0180 1
; 0181 1 !++ !etc.
; 0182 1 ! Functional Description:
; 0183 1 !
; 0184 1 ! This routine does any initilizations that are common to both the Menu Test and the Auto Test.
; 0185 1 ! This is called by both of the main initialization routines for Menu and Auto test. ![[03]]
; 0186 1 !
; 0187 1 ! Formal Parameters:
; 0188 1 !
; 0189 1 ! Control_C_Handler_Address: The address of the ^C handler routine.
; 0190 1 !
; 0191 1 ! Side Effects:
; 0192 1 !
; 0193 1 ! Plenty
; 0194 1 !
; 0195 1 ! Completion Codes:
; 0196 1 !
; 0197 1 ! CRD$K_Success
; 0198 1 ! --
; 0199 2 BEGIN ! Routine CRD$Common_Initializations
; 0200 2 LOCAL
; 0201 2 DS_Flags; ! Used locally to set bits in the DS$GL_Flags longword
; 0202 2
; 0203 2 IF (.DSA$V_CRD_AutoTest_Off) THEN ![[06]]
; 0204 2 CRD$GT_Which_CRD = CRD$GT_Auto ![[02]]
; 0205 2 ELSE ![[02]]
; 0206 2 CRD$GT_Which_CRD = CRD$GT_Menu; ![[02]]
; 0207 2
; 0208 2 CRD$Set_Ctrl_C_Handlers (.Control_C_Handler_Address, .Control_C_Handler_Address); ![[04]]
; 0209 2 CRD$Enable_Ctrl_C (); ![[04]]
; 0210 2

```



```

; 0211 2 DSA$V_Binary = Off; ! Turn it off before saving the flags
; 0212 2 DSA$V_CRD_AutoTest_Off = Off; ! Turn it off before saving the flags [06]
; 0213 2 DSA$V_CRD_MenuTest_Off = Off; ! Turn it off before saving the flags [06]
; 0214 2 DSA$V_CRD_MenuTest_On = Off; ! Turn it off before saving the flags [06]
; 0215 2
; 0216 2 CRD$GL_Saved_DSA_Flags = .DSA$GL_Flags;
; 0217 2 ! Save the current settings of the DSA flags
; 0218 2
; 0219 2 DSA$V_APT = Off; ! None of these DSA flags should be on
; 0220 2 DSA$V_Bell = Off;
; 0221 2 DSA$V_Halt = Off;
; 0222 2 DSA$V_IE1 = Off;
; 0223 2 DSA$V_IE2 = Off;
; 0224 2 DSA$V_IE3 = Off;
; 0225 2 DSA$V_IES = Off;
; 0226 2 DSA$V_Loop = Off;
; 0227 2 DSA$V_NoRpt = Off;
; 0228 2 DSA$V_Oper = On; ! Kludge
; 0229 2 DSA$V_Prompt = Off;
; 0230 2 DSA$V_QA = Off;
; 0231 2 DSA$V_Quick = Off;
; 0232 2 DSA$V_Search = Off;
; 0233 2 DSA$V_Trace = Off;
; 0234 2 DSA$V_Verify = Off;
; 0235 2
; 0236 3 RETURN (CRD$K_Success) ! [03]
; 0237 1 END; ! Routine CRD$Common_Initializations ! [01]

```

```

.EXTRN CRD$GT_AUTO, CRD$GT_MENU
.EXTRN CRD$SET_CTRL_C_HANDLERS
.EXTRN CRD$ENABLE_CTRL_C

```

```

OFFC 00000 .ENTRY CRD$COMMON_INITIALIZATIONS, Save R2,R3,R4,- ; 0179
R5,R6,R7,R8,R9,R10,R11
0D 0000FE01 9F 03 E1 00002 BBC #3, @X0000FE01, 1$ ; 0203
00000000' EF 00000000G EF 9E 0000A MOVAB CRD$GT_AUTO, CRD$GT_WHICH_CRD ; 0204
0B 11 00015 BRB 2$ ;
00000000' EF 00000000G EF 9E 00017 1$; MOVAB CRD$GT_MENU, CRD$GT_WHICH_CRD ; 0206
51 04 AC D0 00022 2$; MOVL CONTROL_C_HANDLER_ADDRESS, R1 ; 0208
50 04 AC D0 00026 MOVL CONTROL_C_HANDLER_ADDRESS, R0 ;
00000000G EF 16 0002A JSB CRD$SET_CTRL_C_HANDLERS ;
00000000G EF 16 00030 JSB CRD$ENABLE_CTRL_C ; 0209
0000FE00 9F 00050802 8F CA 00036 BICL2 #329730, @X0000FE00 ; 0214
00000000' EF 0000FE00 9F D0 00041 MOVL @X0000FE00, CRD$GL_SAVED_DSA_FLAGS ; 0216
0000FE00 9F 880000FD 8F CA 0004C BICL2 #-2013265667, @X0000FE00 ; 0227
0000FE01 9F 10 88 00057 BISB2 #16, @X0000FE01 ; 0228
0000FE01 9F E7 8F 8A 0005E BICB2 #231, @X0000FE01 ; 0234
50 01 D0 00066 MOVL #1, R0 ; 0236
04 00069 RET ; 0237

```

; Routine Size: 106 bytes, Routine Base: CODE + 005B

```

; 0238 1 END      ! End of CRDINIT module
; 0239 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	8	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	8	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	197	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced ...
\$CRD_LITERALS	Macro	Lib01	103
\$DS_DSADEF	Macro	Lib03	104
\$EQLST	Macro	Lib04	103
\$ER	Comptime	120	
\$MODULE	Bind	120	
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal		103
AUTOSK_EXIT_CONTROL_C	Literal		103
AUTOSK_EXIT_DUMMY_2	Literal		103
AUTOSK_EXIT_DUMMY_3	Literal		103
AUTOSK_EXIT_ERRORS_COMPLETE	Literal		103
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal		103
AUTOSK_EXIT_INTERNAL_ERROR	Literal		103
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal		103
AUTOSK_EXIT_LAST_REASON	Literal	103	103
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal		103
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal		103
AUTOSK_EXIT_NOERRORS_PREP	Literal		103
CONTROL_C_HANDLER_ADDRESS	RoutForm	179	208.
CRD\$BUILD_SUPPORT_TABLE	ExtRout	Lib01	165c
CRD\$COMMON_INITIALIZATIONS	GlobRout	179 Lib01e	96f 151c
CRD\$CONTROL_C_HANDLER	ExtRout	Lib01	151a
CRD\$CRD_INITIALIZATION	GlobRout	129 Lib01e	99f
CRD\$ENABLE_CTRL_C	ExtRout	Lib01	209c
CRD\$GB_CRD_DEBUG	External	Lib01	156. 160. 168.
CRD\$GL_SAVED_DSA_FLAGS	Global	126 Lib01e	216=
CRD\$GT_AUTO	External	Lib01	204a
CRD\$GT_MENU	External	Lib01	206a
CRD\$GT_WHICH_CRD	Global	124 Lib01e	204= 206=
CRD\$INIT_GENERAL_COM_TABLE	ExtRout	Lib01	154c
CRD\$INIT_STATE_TABLE	ExtRout	Lib01	163c
CRD\$K_ACTION_EQL_DO_NOTHING	Literal		103
CRD\$K_ACTION_RANGE_ERROR	Literal		103
CRD\$K_ADVANCE_DIAGNOSTIC	Literal		103

Symbol Type Defined Referenced ...

Symbol	Type	Defined	Referenced
CRD\$K_ADVANCE_GENERAL_COM	Literal	103	
CRD\$K_ADVANCE_STATE	Literal	103	
CRD\$K_ALLOCATION_ERROR	Literal	103	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	103	
CRD\$K_AUTOSIZER_ERROR	Literal	103	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	103	
CRD\$K_BAD_ACTION_NUMBER	Literal	103	
CRD\$K_BAD_TYPECODE_ERROR	Literal	103	
CRD\$K_BASE_SYSTEM_IDC	Literal	103	
CRD\$K_BASE_SYSTEM_LESI	Literal	103	
CRD\$K_BASE_SYSTEM_NULL	Literal	103	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	103	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	103	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	103	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	103	
CRD\$K_CRD_INITIALIZATION	Literal	103	
CRD\$K_CREATE_HST	Literal	103	
CRD\$K_DATA_LENGTH_ERROR	Literal	103	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	103	
CRD\$K_DDB_BLINK	Literal	103	
CRD\$K_DDB_FLINK	Literal	103	
CRD\$K_DDB_LAST_ENTRY	Literal	103	
CRD\$K_DDB_MEMORY_SIZE	Literal	103	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	103	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	103	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	103	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	103	
CRD\$K_DDB_PTABLE_ENTRY	Literal	103	
CRD\$K_DDB_STATUS	Literal	103	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	103	
CRD\$K_DEVICE_NAME	Literal	103	
CRD\$K_DIAGNOSTIC_ERROR	Literal	103	
CRD\$K_DIAGNOSTIC_NAME	Literal	103	
CRD\$K_DONE_GENERAL_COMS	Literal	103	
CRD\$K_DO_NOTHING	Literal	103	
CRD\$K_DUMMY_10	Literal	103	
CRD\$K_DUMMY_11	Literal	103	
CRD\$K_DUMMY_12	Literal	103	
CRD\$K_DUMMY_13	Literal	103	
CRD\$K_DUMMY_3	Literal	103	
CRD\$K_DUMMY_4	Literal	103	
CRD\$K_DUMMY_5	Literal	103	
CRD\$K_DUMMY_6	Literal	103	
CRD\$K_DUMMY_7	Literal	103	
CRD\$K_DUMMY_8	Literal	103	
CRD\$K_DUMMY_9	Literal	103	
CRD\$K_EXIT_CRD	Literal	103	
CRD\$K_HOOK_POINT	Literal	103	
CRD\$K_HS_INTERNAL_ERROR	Literal	103	
CRD\$K_IDC_EVDLB	Literal	103	
CRD\$K_IDC_EVDLC	Literal	103	
CRD\$K_IDC_EVDLD	Literal	103	
CRD\$K_IDC_EVRAD_0	Literal	103	

Symbol	Type	Defined	Referenced ...
--------	------	---------	----------------

CRD\$K_IDC_EVRAD_1	Literal	103	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	103	
CRD\$K_INTERNAL_ERROR	Literal	103	
CRD\$K_LAST_ACTION_ROUTINE	Literal	103	
CRD\$K_LAST_ENTRY	Literal	103	
CRD\$K_LAST_FUNCTION	Literal	103	
CRD\$K_LAST_HOOK_POINT	Literal	103	
CRD\$K_LAST_INTERNAL_ERROR	Literal	103	
CRD\$K_LAST_TYPE	Literal	103	
CRD\$K_LESI_ENWCA	Literal	103	
CRD\$K_LESI_EVRMB_0	Literal	103	
CRD\$K_LESI_EVRMB_1	Literal	103	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	103	
CRD\$K_LEVEL_4_PASSED	Literal	103	
CRD\$K_LOAD_AUTOSIZER	Literal	103	
CRD\$K_LOAD_ERROR	Literal	103	
CRD\$K_LOAD_GENERAL_COM	Literal	103	
CRD\$K_LOAD_LOAD_COM	Literal	103	
CRD\$K_LOAD_SELECT_COM	Literal	103	
CRD\$K_LOAD_SET_EVENT_COM	Literal	103	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	103	
CRD\$K_LOAD_START_COM	Literal	103	
CRD\$K_LOAD_SUP_FILE	Literal	103	
CRD\$K_MM_INTERNAL_ERROR	Literal	103	
CRD\$K_NEW_LINE	Literal	103	
CRD\$K_PREPARATION_ERROR	Literal	103	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	103	
CRD\$K_RUNTIME	Literal	103	
CRD\$K_SAME_LINE	Literal	103	
CRD\$K_SET_EVENT_ARGS	Literal	103	
CRD\$K_SET_FLAGS_ARGS	Literal	103	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	103	
CRD\$K_START	Literal	103	
CRD\$K_START_AUTOSIZER	Literal	103	
CRD\$K_START_ERROR	Literal	103	
CRD\$K_START_QUALIFIERS	Literal	103	
CRD\$K_STAR_LINE	Literal	103	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	103	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	103	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	103	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	103	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	103	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	103	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	103	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	103	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	103	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	103	
CRD\$K_STATE_DUMMY_1	Literal	103	
CRD\$K_STATE_DUMMY_10	Literal	103	
CRD\$K_STATE_DUMMY_12	Literal	103	
CRD\$K_STATE_DUMMY_13	Literal	103	
CRD\$K_STATE_DUMMY_2	Literal	103	
CRD\$K_STATE_DUMMY_3	Literal	103	

Symbol Type Defined Referenced ...

Symbol	Type	Defined	Referenced	...
CRD\$K_STATE_DUMMY_4	Literal	103		
CRD\$K_STATE_DUMMY_6	Literal	103		
CRD\$K_STATE_DUMMY_7	Literal	103		
CRD\$K_STATE_DUMMY_8	Literal	103		
CRD\$K_STATE_EXIT_CRD	Literal	103		
CRD\$K_STATE_INTERNAL_ERROR	Literal	103		
CRD\$K_STATE_LAST_STATE	Literal	103		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	103		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	103		
CRD\$K_STATE_LOAD_ERROR	Literal	103		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	103		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	103		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	103		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	103		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	103		
CRD\$K_STATE_LOAD_START_COM	Literal	103		
CRD\$K_STATE_PREPARATION_ERROR	Literal	103		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	103		
CRD\$K_STATE_START	Literal	103		
CRD\$K_STATE_START_AUTOSIZER	Literal	103		
CRD\$K_STATE_START_ERROR	Literal	103		
CRD\$K_SUCCESS	Literal	Lib01 175	236	
CRD\$K_TEST_START_TEXT	Literal	103		
CRD\$K_TQ_INTERNAL_ERROR	Literal	103		
CRD\$K_TYPECODE	Literal	103		
CRD\$K_UDA_0_EVDLB	Literal	103		
CRD\$K_UDA_0_EVDLC	Literal	103		
CRD\$K_UDA_0_EVDLD	Literal	103		
CRD\$K_UDA_0_EVRLA_0	Literal	103		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	103		
CRD\$K_UDA_1_EVDLB	Literal	103		
CRD\$K_UDA_1_EVDLC	Literal	103		
CRD\$K_UDA_1_EVDLD	Literal	103		
CRD\$K_UDA_1_EVRLA_0	Literal	103		
CRD\$K_UDA_1_EVRLA_1	Literal	103		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	103		
CRD\$K_UDA_2_EVDLB	Literal	103		
CRD\$K_UDA_2_EVDLC	Literal	103		
CRD\$K_UDA_2_EVDLD	Literal	103		
CRD\$K_UDA_2_EVRLA_0	Literal	103		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	103		
CRD\$K_UDA_3_EVDLB	Literal	103		
CRD\$K_UDA_3_EVDLC	Literal	103		
CRD\$K_UDA_3_EVDLD	Literal	103		
CRD\$K_UDA_3_EVRLA_0	Literal	103		
CRD\$K_UDA_3_EVRLA_1	Literal	103		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	103		
CRD\$PRINT_COMMAND_TABLE	ExtRout	Lib01 157c		
CRD\$PRINT_HARDWARE_SUPPORT	ExtRout	Lib01 169c		
CRD\$PRINT_PTABLES	ExtRout	Lib01 161c		
CRD\$SET_CTRL_C_HANDLERS	ExtRout	Lib01 208c		
DSA\$AL_APTMAIL	Bind	104 104		
DSA\$GL_APTCOM	Bind	104		

Symbol	Type	Defined	Referenced ...
DS\$GL_DEVLEN	Bind	104	
DS\$GL_DEVNAM	Bind	104	
DS\$GL_ERRNO	Bind	104	
DS\$GL_EVENT	Bind	104	
DS\$GL_FLAGS	Bind	104	172 173 203 211 212 213 214 216 219 220
		221 222 223 224 225 226 227 228 229 230	
		231 232 233 234	
DS\$GL_MSGPTR	Bind	104	
DS\$GL_MSGTYP	Bind	104	
DS\$GL_PASSES	Bind	104	
DS\$GL_PASSNO	Bind	104	
DS\$GL_SECTNO	Bind	104	
DS\$GL_SID	Bind	104	
DS\$GL_SUBTNO	Bind	104	
DS\$GL_TESTNO	Bind	104	
DS\$GL_UNITS	Bind	104	
DS\$V_APT	Macro	Lib03	219
DS\$V_BELL	Macro	Lib03	220
DS\$V_BINARY	Macro	Lib03	172 211
DS\$V_CRD_AUTOTEST_OFF	Macro	Lib03	173 203 212
DS\$V_CRD_MENUTEST_OFF	Macro	Lib03	213
DS\$V_CRD_MENUTEST_ON	Macro	Lib03	214
DS\$V_HALT	Macro	Lib03	221
DS\$V_IE1	Macro	Lib03	222
DS\$V_IE2	Macro	Lib03	223
DS\$V_IE3	Macro	Lib03	224
DS\$V_IES	Macro	Lib03	225
DS\$V_LOOP	Macro	Lib03	226
DS\$V_NORPT	Macro	Lib03	227
DS\$V_OPER	Macro	Lib03	228
DS\$V_PROMPT	Macro	Lib03	229
DS\$V_QA	Macro	Lib03	230
DS\$V_QUICK	Macro	Lib03	231
DS\$V_SEARCH	Macro	Lib03	232
DS\$V_TRACE	Macro	Lib03	233
DS\$V_VERIFY	Macro	Lib03	234
DS_FLAGS	Local	201	
GET1ST	Macro	Lib04	103
GET2ND	Unbound	103	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	103	
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	103	
HS\$K_ACTION_ADVANCE_STATE	Literal	103	
HS\$K_ACTION_CHANGE_TABLE	Literal	103	
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	103	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	103	
HS\$K_ACTION_DO_NOTHING	Literal	103	
HS\$K_ACTION_DUMMY_3	Literal	103	
HS\$K_ACTION_DUMMY_4	Literal	103	
HS\$K_ACTION_DUMMY_5	Literal	103	
HS\$K_ACTION_DUMMY_6	Literal	103	
HS\$K_ACTION_INIT_HS	Literal	103	
HS\$K_ACTION_INTERNAL_ERROR	Literal	103	
HS\$K_ACTION_LAST_ACTION	Literal	103	

Symbol	Type	Defined	Referenced ...
HS\$K_ACTION_LOAD_ERROR	Literal	103	
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	103	
HS\$K_ACTION_LOAD_LOAD_COM	Literal	103	
HS\$K_ACTION_LOAD_SELECT_COM	Literal	103	
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	103	
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	103	
HS\$K_ACTION_LOAD_START_COM	Literal	103	
HS\$K_ACTION_PREPARATION_ERROR	Literal	103	
HS\$K_ACTION_START_ERROR	Literal	103	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	103	
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	103	
HS\$K_STATE_CHANGE_TABLE	Literal	103	
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	103	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	103	
HS\$K_STATE_DONE_GENERAL_COMS	Literal	103	
HS\$K_STATE_DUMMY_1	Literal	103	
HS\$K_STATE_DUMMY_2	Literal	103	
HS\$K_STATE_DUMMY_3	Literal	103	
HS\$K_STATE_DUMMY_4	Literal	103	
HS\$K_STATE_DUMMY_6	Literal	103	
HS\$K_STATE_INIT_HS	Literal	103	
HS\$K_STATE_INTERNAL_ERROR	Literal	103	
HS\$K_STATE_LAST_STATE	Literal	103	
HS\$K_STATE_LOAD_ERROR	Literal	103	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	103	
HS\$K_STATE_LOAD_LOAD_COM	Literal	103	
HS\$K_STATE_LOAD_SELECT_COM	Literal	103	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	103	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	103	
HS\$K_STATE_LOAD_START_COM	Literal	103	
HS\$K_STATE_PREPARATION_ERROR	Literal	103	
HS\$K_STATE_START_ERROR	Literal	103	
MEN\$K_HS_STATE_TABLE	Literal	103	
MEN\$K_MM_STATE_TABLE	Literal	103	
MEN\$K_TQ_STATE_TABLE	Literal	103	
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	103	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	103	
MEN\$K_EXIT_LAST_REASON	Literal	103	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	103	
MEN\$K_EXIT_OPERATOR_STOP	Literal	103	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	103	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	103	
MM\$K_ACTION_ADVANCE_STATE	Literal	103	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	103	
MM\$K_ACTION_BUILD_DDBS	Literal	103	
MM\$K_ACTION_BUILD_HSTS	Literal	103	
MM\$K_ACTION_CHANGE_TABLE	Literal	103	
MM\$K_ACTION_DONE_INITS	Literal	103	
MM\$K_ACTION_DO_NOTHING	Literal	103	
MM\$K_ACTION_DUMMY_3	Literal	103	
MM\$K_ACTION_DUMMY_4	Literal	103	
MM\$K_ACTION_DUMMY_5	Literal	103	
MM\$K_ACTION_DUMMY_6	Literal	103	

Symbol	Type	Defined	Referenced ...
MM\$K_ACTION_DUMMY_7	Literal	103	
MM\$K_ACTION_DUMMY_8	Literal	103	
MM\$K_ACTION_INTERNAL_ERROR	Literal	103	
MM\$K_ACTION_LAST_ACTION	Literal	103	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	103	
MM\$K_ACTION_MENU_PROMPT	Literal	103	
MM\$K_ACTION_PRINT_MENU	Literal	103	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	103	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	103	
MM\$K_ACTION_START_AUTOSIZER	Literal	103	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	103	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	103	
MM\$K_STATE_BUILD_DDBS	Literal	103	
MM\$K_STATE_BUILD_HSTS	Literal	103	
MM\$K_STATE_CHANGE_TABLE	Literal	103	
MM\$K_STATE_DONE_INITS	Literal	103	
MM\$K_STATE_DUMMY_1	Literal	103	
MM\$K_STATE_DUMMY_2	Literal	103	
MM\$K_STATE_DUMMY_3	Literal	103	
MM\$K_STATE_DUMMY_5	Literal	103	
MM\$K_STATE_DUMMY_7	Literal	103	
MM\$K_STATE_DUMMY_8	Literal	103	
MM\$K_STATE_INTERNAL_ERROR	Literal	103	
MM\$K_STATE_LAST_STATE	Literal	103	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	103	
MM\$K_STATE_MENU_PROMPT	Literal	103	
MM\$K_STATE_PRINT_MENU	Literal	103	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	103	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	103	
MM\$K_STATE_START	Literal	103	
MM\$K_STATE_START_AUTOSIZER	Literal	103	
MODNAM	Macro	Lib02 120	
NUL2ND	Macro	Lib04 103	
OFF	Literal	Lib01 211	212 213 214 219 220 221 222 223 224
		225 226 227 229 230 231 232 233 234	
ON	Literal	Lib01 172	173 228
TQ\$K_ACTION_ADVANCE_STATE	Literal	103	
TQ\$K_ACTION_CHANGE_TABLE	Literal	103	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	103	
TQ\$K_ACTION_DO_NOTHING	Literal	103	
TQ\$K_ACTION_DUMMY_3	Literal	103	
TQ\$K_ACTION_DUMMY_4	Literal	103	
TQ\$K_ACTION_DUMMY_5	Literal	103	
TQ\$K_ACTION_GET_DDB	Literal	103	
TQ\$K_ACTION_INIT_TQ	Literal	103	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	103	
TQ\$K_ACTION_LAST_ACTION	Literal	103	
TQ\$K_STATE_CHANGE_TABLE	Literal	103	
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	103	
TQ\$K_STATE_DUMMY_1	Literal	103	
TQ\$K_STATE_DUMMY_2	Literal	103	
TQ\$K_STATE_DUMMY_3	Literal	103	
TQ\$K_STATE_DUMMY_4	Literal	103	

Symbol	Type	Defined	Referenced ...
TQ\$K_STATE_DUMMY_5	Literal	103	
TQ\$K_STATE_GET_DDB	Literal	103	
TQ\$K_STATE_INIT_TQ	Literal	103	
TQ\$K_STATE_INTERNAL_ERROR	Literal	103	
TQ\$K_STATE_LAST_STATE	Literal	103	

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDINIT.B32;1
2	Module	CRDINIT
83	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
86	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
89	Library #3	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
92	Library #4	SYSS\$COMMON:[SYSLIB]LIB.L32;2
239	Eludom	CRDINIT

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Symbols			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	22	4	62	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	21	2	94	00:00.1
SYSS\$COMMON:[SYSLIB]LIB.L32;2	18619			3	0
				1000	00:04.4

ZZ-ENSAB-2.0 CRD\$Common_Initializations Routine M 10
CRDINIT *** CRDINIT Module 19-Sep-1985 16:53:29 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame M10 Sequence 747
01-06 CRD\$Common_Initializations Routine 3-Jan-1985 17:02:10 [DS.CRD.V020]CRDINIT.B32;1 Page 15 (1)

; COMMAND QUALIFIERS

; BLISS CRDINIT.B32/LIST=CRDINIT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDINIT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 197 code + 16 data bytes
; Run Time: 00:20.0
; Elapsed Time: 00:37.8
; Lines/CPU Min: 718
; Lexemes/CPU-Min: 53735
; Memory Used: 167 pages
; Compilation Complete

```

; 0001 0 *TITLE '*** CRDINTRFC Module'
; 0002 0 MODULE CRDINTRFC ( IDENT='07', ZIP, OPTLEVEL=3) =
; 0003 0
; 0004 0 !**
; 0005 0 ! COPYRIGHT (c) 1980, 1981, 1985
; 0006 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0007 0 !
; 0008 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
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; 0020 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0021 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0022 0 ! -
; 0023 0 !
; 0024 0 ! **
; 0025 0 ! History:
; 0026 0 !
; 0027 0 ! 00 Jack Stansbury, 29-March-1982
; 0028 0 ! Created module
; 0029 0 !
; 0030 0 ! 01 Jack Stansbury, 15-July-1982, Version 1.0
; 0031 0 ! Added code to support CRD Menu Test.
; 0032 0 !
; 0033 0 ! 02 Jack Stansbury, August 31, 1982, Version 1.1
; 0034 0 ! Added code to allow Menu Test to get User_Prompts without specifying them in the
; 0035 0 ! State Tables. This is primarily for the ^C User_Prompt, which can happen at any time.
; 0036 0 !
; 0037 0 ! 03 John Ciukaj 5-Apr-1983 Version 1.2
; 0038 0 ! - Changed references to CRD bits in DSA Flags to
; 0039 0 ! distinguish between Online and Offline.
; 0040 0 !
; 0041 0 ! 04 Scott Cohen 16-June-1983 Version 1.2
; 0042 0 ! Added code to allow Auto Test to get User_Prompts without specifying them in the
; 0043 0 ! State Tables. This is primarily for the soft console support.
; 0044 0 !
; 0045 0 ! 05 Ronald W. Parker 27-SEP-1984
; 0046 0 ! Cleaned up, added CRD MENU ONLINE mechanism, defined
; 0047 0 ! the undefined return value when cases fail.
; 0048 0 !
; 0049 0 ! 06 Ronald W. Parker 5-DEC-1984
; 0050 0 ! Added CRD$LOG_ routines
; 0051 0 !
; 0052 0 ! 07 Ronald W. Parker 14-March-1984
; 0053 0 ! - Add 810 action on offline and check for 730 offline
; 0054 0 ! --

```

```

; 0055 0
; 0056 0 xSBTTL 'Libraries'
; 0057 1 BEGIN ! Begin the CRDINTRFC module
; 0058 1
; 0059 1 LIBRARY '$CRD';
; 0060 1 LIBRARY '$DS';
; 0061 1 LIBRARY '$Diag';
; 0062 1 LIBRARY 'SYS$Library:LIB';
; 0063 1
; 0064 1
; 0065 1 xSBTTL 'Table of Contents'
; 0066 1
; 0067 1 FORWARD ROUTINE
; 0068 1 ! The interface routine between the Resident-DS and CRD-Loadable
; 0069 1 CRD$DS_Interface : Addressing_Mode (Long_Relative),
; 0070 1
; 0071 1 ! CRD logging routines
; 0072 1 CRD$Log_Start : ADDRESSING_MODE (LONG_RELATIVE), !006
; 0073 1 CRD$Log_Stop : ADDRESSING_MODE (LONG_RELATIVE), !006
; 0074 1 CRD$Log_Write : ADDRESSING_MODE (LONG_RELATIVE); !006
; 0075 1
; 0076 1 xSBTTL 'Included Macros and Literals'
; 0077 1
; 0078 1 $DS_DSADef; ! Define the DSA bits ![01]
; 0079 1 $CRD_Literals; ! Define some literals for CRD
; 0080 1 $DS_TypeDef; ! Define the typecodes ![02]
; 0081 1
; 0082 1
; 0083 1 xSBTTL 'Psect Definitions'
; 0084 1
; 0085 1 PSECT
; 0086 1 PLIT = Data (NOEXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0087 1
; 0088 1 PSECT
; 0089 1 CODE - Code ( EXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0090 1
; 0091 1 PSECT
; 0092 1 OWN = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0093 1
; 0094 1 PSECT
; 0095 1 GLOBAL = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0096 1
; 0097 1
; 0098 1 xSBTTL 'Module-Global Static Storage'
; 0099 1
; 0100 1 ModNam ('CRDINTRFC'); ! Module name for ErrSup macro
; 0101 1
; M 0102 1 KEYWORDMACRO $LOAD_ASCID_S ( NAM,STR ) = ![06]
; M 0103 1 Nam[0,00,16,0] = xCHARCOUNT(STR); ![06]
; M 0104 1 Nam[0,16,08,0] = DSC$K_DTYPE_T;
; M 0105 1 Nam[0,24,08,0] = DSC$K_CLASS_S;
; 0106 1 Nam[1,00,32,0] = UPLIT (xASCII STR)x; ![06]
; 0107 1
; 0108 1 OWN ![06]
; 0109 1 LOG_FAB : $FAB ( RFM=VAR, RAT=CR ), ![06]

```

ZZ-ENSAB-2.0 Module-Global Static Storage C 11
CRDINTRFC *** CRDINTRFC Module 19-Sep-1985 16:54:11 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame C11 Sequence 750
07 Module-Global Static Storage 19-Sep-1985 12:31:52 [DS.CRD.V020]CRDINTRFC.B32;1 Page 3 (2)

```
; 0110 1      LOG_RAB : $RAB ();                      ![[06]]
; 0111 1
; 0112 1 GLOBAL                      ![[02]]
; 0113 1 CRD$GB_User_Prompt_Okay : BYTE INITIAL (False);                      ![[02]]
; 0114 1      ! If set to True, then User_Prompt typecodes will not result in a call ![[02]]
; 0115 1      ! to the MEN$Turing_Machine routine.                      ![[02]]
```

```

; 0116 1 *SBTTL 'CRD$DS Interface Routine'
; 0117 1
; 0118 1 GLOBAL ROUTINE CRD$DS Interface (Function, Code, Length, Address) =
; 0119 1
; 0120 1 |*****
; 0121 1 |**
; 0122 1 | Functional Description:
; 0123 1 |
; 0124 1 |   This routine is the interface routine between the Resident-Diagnostic
; 0125 1 |   Supervisor and th Loadable-Customer Runnable Diagnostic package. This
; 0126 1 |   routine is the one AND ONLY routine that the Resident-DS routines call when
; 0127 1 |   interfacing with the CRD package is required. This routine will dispatch to
; 0128 1 |   several different CRD routines, based on the value of the first parameter.
; 0129 1 |
; 0130 1 | Formal Parameters:
; 0131 1 |
; 0132 1 |   Function: Determines what type of CRD call this was. It could be
; 0133 1 |   a call to the CRD package because of a DS Print
; 0134 1 |   statement, or because CRD should initialize itself.
; 0135 1 |   Code: Either a TypeCode, as defined by the $DS_TypeDef macro,
; 0136 1 |   or a particular CRD function code, such as
; 0137 1 |   initialization, etc.
; 0138 1 |   Length: The length of the string that is about to be printed.
; 0139 1 |   This could also be CLI buffer length.
; 0140 1 |   Address: The address of the string that is about to be printed.
; 0141 1 |   This could also be the CLI buffer address.
; 0142 1 |
; 0143 1 | Completion Codes:
; 0144 1 |
; 0145 1 |   0 => Print what was about to be printed by the Resident-DS.
; 0146 1 |   1 => Branch around the actual outputting of the string.
; 0147 1 |   2 => Invalid FUNCTION parameter passed to CRDINTRFC
; 0148 1 |   4 => Illegal mode found in DSA_Extract
; 0149 1 |   6 => Invalid CODE parameter passed to CRDINTRFC
; 0150 1 |   8 => Illegal mode found in DSA_Extract
; 0151 1 |  12=> Autotest offline mode but not 730 or 810 processor
; 0152 1 | --
; 0153 1 |*****
; 0154 1 |
; 0155 2 BEGIN
; 0156 2
; 0157 2 |*****
; 0158 2 |*
; 0159 2 |   Variable definitions
; 0160 2 | -
; 0161 2 |*****
; 0162 2
; 0163 2 REGISTER
; 0164 2   DSA_Extract, P1, P2, Return_Value;    ! [07]
; 0165 2
; 0166 2 OWN
; 0167 2   Command : BLOCK [2, LONG];

```

```

0168 2
0169 2 *****
0170 2 *
0171 2 | Store the mode control bits in a contiguous bit stream for easier
0172 2 | reference later on. DSA_Extract, bits 0-2, will contain the DSA
0173 2 | bits. Bits 3-7 of DSA_Extract will be zero.
0174 2 |
0175 2 | Bit 0 will be Autotest offline
0176 2 | Bit 1 will be Menutest offline
0177 2 | Bit 2 will be Menutest online
0178 2 | -
0179 2 | *****
0180 2
0181 2 DSA_Extract = 0; ! [05]
0182 2 DSA_Extract<0,1,0> = .DSA$V_CRD_Autotest_off; ! [05]
0183 2 DSA_Extract<1,1,0> = .DSA$V_CRD_Menutest_off; ! [05]
0184 2 DSA_Extract<2,1,0> = .DSA$V_CRD_Menutest_On; ! [05]
0185 2
0186 2 *****
0187 2 *
0188 2 | Now decide the action to take based on the function passed.
0189 2 | -
0190 2 | *****
0191 2
0192 2 CASE .Function FROM 0 TO (CRD$K_Last_Function - 1) OF
0193 2 SET
0194 2 [CRD$K_Hook_Point]:
0195 3 BEGIN
0196 3 CASE .Code FROM 0 TO (CRD$K_Last_Hook_Point - 1) OF
0197 3 SET
0198 3 [CRD$K_CRD_Initialization]:
0199 4 BEGIN
0200 4
0201 4 ! . . . Initialize CRD according to the mode
0202 4
0203 4 CASE .DSA_Extract FROM 1 TO 4 OF ! [05]
0204 4 SET ! [05]
0205 4 [ 1 ] :
0206 4 ! . . . Autotest offline mode
0207 4 ! IF 11/730 processor, do autotest offline init
0208 5 IF (.DSA$GL_SID<24,8,0> EQL PR$_SID_TYP730)
0209 4 THEN Return_Value = CRD$CRD_Initialization();! [07]
0210 4 ELSE Return_Value = 1; ! [07]
0211 4 [ 2,4 ] :
0212 4 ! . . . Menutest offline and mode
0213 4 Return_Value=MEN$Menu_Fncfst_Init(.DSA_Extract);! [05]
0214 4 [ INRANGE ] : Return_Value = 4; ! ERROR ! [05]
0215 4 [ OUTRANGE ] : Return_Value = 4; ! ERROR ! [05]
0216 4 TES; ! [05]
0217 3 END; ! [05]
0218 3 [ OUTRANGE ] : Return_Value = 6; ! ERROR ! [05]
0219 3 TES;
0220 2 END;

```

```

; 0221 2      [CRD$K_TypeCode]:
; 0222 2
; 0223 2 !      .      IF its okay to prompt and prompt requested
; 0224 2 !      .      THEN return 0 so VDS behaves as if CRD doesn't exist
; 0225 2 !      .      ELSE Setup parameters and execute CRD code.
; 0226 2
; 0227 3      IF ((.Code EQL DS$K_Type_User_Prompt) AND (.CRD$GB_User_Prompt_Okay))
; 0228 2      THEN
; 0229 2          Return_Value = 0
; 0230 2      ELSE
; 0231 3      BEGIN
; 0232 3
; 0233 3 !      .      .      IF executing via a command file
; 0234 3 !      .      .      THEN fudge the prompt
; 0235 3 !      .      .      ELSE pass normal values
; 0236 3
; 0237 4      IF (.Code EQL DS$K_Type_Script_Echo)
; 0238 3      THEN
; 0239 4          BEGIN
; 0240 4              P1 = DS$K_Type_DS_Prompt;      ! [05]
; 0241 4              P2 = 80;      ! [05]
; 0242 4          END
; 0243 3      ELSE
; 0244 4      BEGIN
; 0245 4          P1 = .Code;      ! [05]
; 0246 4          P2 = .Length;      ! [05]
; 0247 3      END;
; 0248 3

```



```

: 0249 3
: 0250 3 ! . . . Now select the appropriate turing machine and execute
: 0251 3
: 0252 3 CASE .DSA_Extract FROM 1 TO 4 OF ! [05]
: 0253 3 SET ! [05]
: 0254 3 [ 1 ] : ! [05]
: 0255 4 BEGIN
: 0256 4 ! . . . Autotest offline
: 0257 4 ! . . . IF 11/730, do autotest offline stuff
: 0258 4 IF (.DSA$GL_SID<24,8,0> EQL PR$ _SID_TYP730) THEN ! [07]
: 0259 4 Return_Value=CRD$Turing_Machine (.P1,.P2,.Address);! [05]
: 0260 4
: 0261 4 ! . IF CPU=820 and start typecode passed THEN do nothing
: 0262 4 IF (.DSA$GL_SID<24,8,0> EQL PR$ _SID_TYP8SS) AND
: 0263 5 ( .CODE EQL DS$K_TYPE_DS_START)
: 0264 4 THEN Return_Value=CRD$K_Success; ! [07]
: 0265 4
: 0266 4 ! . . . IF CPU=820/8nn and Prompt typecode passed THEN @VDS_SCRIPT
: 0267 4 ! . . . Special function to execute a command file on 820 CPUs
: 0268 4 ! . . . Also clear any CRD bits, so as not to come back to CRD
: 0269 5 IF ((.DSA$GL_SID<24,8,0> EQL PR$ _SID_TYP8SS) OR
: 0270 4 (.DSA$GL_SID<24,8,0> EQL PR$ _SID_TYP8NN)) AND
: 0271 5 ( .CODE EQL DS$K_TYPE_DS_PROMPT)
: 0272 4 THEN
: 0273 5 BEGIN
: 0274 5 $LOAD ASCID_S(NAM=Command, STR='@VDS_SCRIPT.COM');
: 0275 5 CH$COPY (.Command[0,0,16,0],
: 0276 5 CH$PTR(.Command[1,0,32,0]),
: 0277 5 %C' ',
: 0278 5 .P2,
: 0279 5 CH$PTR(.Address)
: 0280 5 );
: 0281 5 DSA$V_CRD_Autotest_Off = 0;
: 0282 5 DSA$V_CRD_Menutest_Off = 0;
: 0283 5 DSA$V_CRD_Menutest_On = 0;
: 0284 5 DSA$V_CRD_Trace = 0;
: 0285 5 $CRD_Return_Length_status (CRD$K_Success);
: 0286 4 END;
: 0287 4 Return_Value = 12; ! [07]
: 0288 3 END;
: 0289 3 [ 2,4 ] : ! [05]
: 0290 3 ! . . . Menutest offline and online
: 0291 3 Return_Value=MEN$Turing_Machine (.P1,.P2,.Address); ! [05]
: 0292 3 [ INRANGE ] : Return_Value = 8; ! ERROR ! [05]
: 0293 3 [ OUTRANGE ] : Return_Value = 8; ! ERROR ! [05]
: 0294 3 TES; ! [05]
: 0295 2 END;
: 0296 2 [ OUTRANGE ] : Return_Value=2; ! ERROR
: 0297 2 TES;
: 0298 2 RETURN (.Return_Value);
: 0299 1 END; ! Routine CRD$DS Interface

```

.TITLE CRDINTRFC *** CRDINTRFC Module
 .IDENT \07\

.PSECT WORK,NOEXE,2

```

03 00000 LOG_FAB:.BYTE 3 ;
50 00001 .BYTE 80 ;
    0000 00002 .WORD 0 ;
    00000000 00004 .LONG 0 ;
    00000000 00008 .LONG 0 ;
    00000000 0000C .LONG 0 ;
    00000000 00010 .LONG 0 ;
    0000 00014 .WORD 0 ;
02 00016 .BYTE 2 ;
00 00017 .BYTE 0 ;
    00000000 00018 .LONG 0 ;
00 0001C .BYTE 0 ;
00 0001D .BYTE 0 ;
02 0001E .BYTE 2 ;
02 0001F .BYTE 2 ;
    00000000 00020 .LONG 0 ;
    00000000 00024 .LONG 0 ;
    00000000 00028 .LONG 0 ;
    00000000 0002C .LONG 0 ;
    00000000 00030 .LONG 0 ;
00 00034 .BYTE 0 ;
00 00035 .BYTE 0 ;
    0000 00036 .WORD 0 ;
    00000000 00038 .LONG 0 ;
    0000 0003C .WORD 0 ;
00 0003E .BYTE 0 ;
00 0003F .BYTE 0 ;
    00000000 00040 .LONG 0 ;
    00000000 00044 .LONG 0 ;
    0000 00048 .WORD 0 ;
00 0004A .BYTE 0 ;
00 0004B .BYTE 0 ;
    00000000 0004C .LONG 0 ;
01 00050 LOG_RAB:.BYTE 1 ;
44 00051 .BYTE 68 ;
    0000 00052 .WORD 0 ;
    00000000 00054 .LONG 0 ;
    00000000 00058 .LONG 0 ;
    00000000 0005C .LONG 0 ;
    0000# 00060 .WORD 0[3] ;
    0000 00066 .WORD 0 ;
    00000000 00068 .LONG 0 ;
    0000 0006C .WORD 0 ;
00 0006E .BYTE 0 ;
00 0006F .BYTE 0 ;
    0000 00070 .WORD 0 ;
    0000 00072 .WORD 0 ;
    00000000 00074 .LONG 0 ;
    00000000 00078 .LONG 0 ;
    00000000 0007C .LONG 0 ;
    00000000 00080 .LONG 0 ;
00 00084 .BYTE 0 ;

```

```

00 00085 .BYTE 0 ;
00 00086 .BYTE 0 ;
00 00087 .BYTE 0 ;
00000000 00088 .LONG 0 ;
00000000 0008C .LONG 0 ;
00000000 00090 .LONG 0 ;
00 00094 CRD$GB_USER_PROMPT_OKAY::
  .BYTE 0 ;
00095 .BLKB 3
00098 COMMAND:.BLKB 8
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

43 46 52 54 4E 49 44 52 43 09 00000 P.AAA: .ASCII <9>\CRDINTRFC\ ;
0000A .BLKB 2
4D 4F 43 2E 54 50 49 52 43 53 5F 53 44 56 40 0000C P.AAB: .ASCII \@VDS_SCRIPT.COM\<0> ;
00 0001B ;
  
```

```

DSA$AL_APTMAIL= 65024
DSA$GL_FLAGS= 65024
DSA$GL_APTCOM= 65028
DSA$GL_PASSES= 65032
DSA$GL_UNITS= 65036
DSA$GL_SECTNO= 65040
DSA$GL_SID= 65044
DSA$GL_MSGTYP= 65088
DSA$GL_ERRNO= 65092
DSA$GL_EVENT= 65096
DSA$GL_SUBTNO= 65100
DSA$GL_TESTNO= 65104
DSA$GL_PASSNO= 65108
DSA$GL_DEVLEN= 65112
DSA$GL_DEVNAM= 65116
DSA$GL_MSGPTR= 65128
  
```

```

$MODULE= P.AAA
  .EXTRN CRD$DS_INTERFACE
  .EXTRN CRD$CRD_INITIALIZATION
  .EXTRN MEN$MENU_FNCTST_INIT
  .EXTRN CRD$TURING_MACHINE
  .EXTRN MEN$TURING_MACHINE
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

007C 00000 .ENTRY CRD$DS_INTERFACE, Save R2,R3,R4,R5,R6 ; 0118
52 D4 00002 CLRL DSA_EXTRACT ; 0181
50 0000FE01 9F 01 03 EF 00004 EXTZV #3, #1, @#^X0000FE01, R0 ; 0182
52 01 00 50 F0 0000D INSV R0, #0, #1, DSA_EXTRACT ;
52 01 01 0000FE02 9F F0 00012 INSV @#^X0000FE02, #1, #1, DSA_EXTRACT ; 0183
50 0000FE02 9F 01 02 EF 0001B EXTZV #2, #1, @#^X0000FE02, R0 ; 0184
52 01 01 02 50 F0 00024 INSV R0, #2, #1, DSA_EXTRACT ;
01 00 04 AC CF 00029 CASEL FUNCTION, #0, #1 ; 0192
0050 000A 0002E 1$: .WORD 2$-1$,- ;
10$-1$ ;
56 02 D0 00032 MOVL #2, RETURN_VALUE ; 0296
0107 31 00035 BRW 23$ ;
  
```

```

00      00 08 AC CF 00038 2$: CASEL CODE, #0, #0 ; 0196
0008      0003D 3$: .WORD 4$-3$
56      06 D0 0003F MOVL #6, RETURN_VALUE ; 0218
00FA 31 00042 BRW 23$
03      01 52 CF 00045 4$: CASEL DSA_EXTRACT, #1, #3 ; 0203
0023 002F 0023 000A 00049 5$: .WORD 6$-5$,-
      8$-5$,-
      9$-5$,-
      8$-5$
25 11 00051 BRB 9$ ; 0215
03 0000FE17 9F 91 00053 6$: CMPB #X0000FE17, #3 ; 0208
0A 12 0005A BNEQ 7$
00000000G EF 00 FB 0005C CALLS #0, CRD$CRD_INITIALIZATION ; 0209
00D1 31 00063 BRW 21$
56      01 D0 00066 7$: MOVL #1, RETURN_VALUE ; 0210
00D3 31 00069 BRW 23$ ; 0208
52 DD 0006C 8$: PUSHL DSA_EXTRACT ; 0213
00000000G EF 01 FB 0006E CALLS #1, MEN$MENU_FNCTST_INIT ;
00BF 31 00075 BRW 21$
56      04 D0 00078 9$: MOVL #4, RETURN_VALUE ; 0214
00C1 31 0007B BRW 23$ ; 0196
54 08 AC D0 0007E 10$: MOVL CODE, R4 ; 0227
02      54 D1 00082 CMPL R4, #2 ;
0C 12 00085 BNEQ 11$
05 00000000' EF E9 00087 BLBC CRD$GB_USER_PROMPT_OKAY, 11$ ;
56 D4 0008E CLRL RETURN_VALUE ; 0229
00AC 31 00090 BRW 23$
21      54 D1 00093 11$: CMPL R4, #33 ; 0237
09 12 00096 BNEQ 12$
50      01 D0 00098 MOVL #1, P1 ; 0240
53 50 8F 9A 0009B MOVZBL #80, P2 ; 0241
07 11 0009F BRB 13$ ; 0237
50      54 D0 000A1 12$: MOVL R4, P1 ; 0245
53 0C AC D0 000A4 MOVL LENGTH, P2 ; 0246
03      01 52 CF 000A8 13$: CASEL DSA_EXTRACT, #1, #3 ; 0252
007F 0090 007F 000B 000AC 14$: .WORD 15$-14$,-
      20$-14$,-
      22$-14$,-
      20$-14$
0085 31 000B4 BRW 22$ ; 0293
52 0000FE17 9F 9A 000B7 15$: MOVZBL #X0000FE17, R2 ; 0258
03      52 91 000BE CMPB R2, #3 ;
0F 12 000C1 BNEQ 16$
10 AC DD 000C3 PUSHL ADDRESS ; 0259
09 BB 000C6 PUSHR #M<R0,R3>
00000000G EF 03 FB 000C8 CALLS #3, CRD$TURING_MACHINE ;
56      50 D0 000CF MOVL R0, RETURN_VALUE ;
50 D4 000D2 16$: CLRL R0 ; 0262
05      52 91 000D4 CMPB R2, #5 ;
0A 12 000D7 BNEQ 17$
50 D6 000D9 INCL R0 ;
1D      54 D1 000DB CMPL R4, #29 ; 0263
03 12 000DE BNEQ 17$
56      01 D0 000E0 MOVL #1, RETURN_VALUE ; 0264
05      50 E8 000E3 17$: BLBS R0, 18$ ; 0269

```

```

    06      52 91 000E6  CMPB  R2, #6          ; 0270
    3B      12 000E9  BNEQ  19$
    01      54 D1 000EB 18$: CMPL  R4, #1      ; 0271
    36      12 000EE  BNEQ  19$
00000000' EF 010E000F 8F D0 000F0  MOVL  #17694735, COMMAND      ; 0274
00000000' EF 00000000' EF 9E 000FB  MOVAB  P.AAB, COMMAND+4
53      20 00000000' FF 00000000' EF 2C 00106  MOVC5  COMMAND, @COMMAND+4, #32, P2, @ADDRESS ; 0279
10      BC      00113
0000FE01  9F      0708 8F AA 00115  BICW2  #1800, @X0000FE01      ; 0284
    50 00500001 8F D0 0011E  MOVL  #5242881, R0      ; 0285
    04 00125  RET
    56      0C D0 00126 19$: MOVL  #12, RETURN_VALUE      ; 0287
    14      11 00129  BRB  23$      ; 0252
10      AC DD 0012B 20$: PUSHL  ADDRESS      ; 0291
    09      BB 0012E  PUSHR  #^M<R0,R3>
00000000G EF      03 FB 00130  CALLS  #3, MEN$TURING_MACHINE ;
    56      50 D0 00137 21$: MOVL  R0, RETURN_VALUE      ;
    03      11 0013A  BRB  23$
    56      08 D0 0013C 22$: MOVL  #8, RETURN_VALUE      ; 0292
    50      56 D0 0013F 23$: MOVL  RETURN_VALUE, R0      ; 0298
    04 00142  RET      ; 0299
  
```

; Routine Size: 323 bytes, Routine Base: CODE + 0000

```

; 0300 1 xTITLE 'CRD$INTRFC module'
; 0301 1 xSBTTL 'CRD$Error_Log routine'
; 0302 1
; 0303 1 GLOBAL ROUTINE CRD$Log_Start =
; 0304 1
; 0305 1 |*****
; 0306 1 |*
; 0307 1 |   Function:
; 0308 1 |   This routine will delete the old SYS$MAINTENANCE:CRD.LOG files
; 0309 1 |   and then create a new SYS$MAINTENANCE:CRD.LOG file with header
; 0310 1 |
; 0311 1 |   Calling sequence:
; 0312 1 |   CALLS #0,L^CRD$Log_Start
; 0313 1 |
; 0314 1 |   Return Status:
; 0315 1 |   All operation, pass or fail return success
; 0316 1 |   -
; 0317 1 |*****
; 0318 1
; 0319 2 BEGIN
; 0320 2 OWN      ! [06]
; 0321 2     Desc : BLOCK [2, LONG],      ! [06]
; 0322 2     Header_Size : VECTOR [1, WORD],      ! [06]
; 0323 2     Header_Buff : VECTOR [132, BYTE];      ! [06]
; 0324 2
; 0325 2 ! Fill in FAB name
; 0326 2
; 0327 2 Log_RAB[RAB$L_FAB] = Log_FAB; ! This is for Position Independent code      ! [06]
; 0328 2
; 0329 2 ! Delete any old copies of the file
; 0330 2
; 0331 2 Log_FAB[FAB$L_FNA] = UPLIT(%ASCII 'SYS$MAINTENANCE:CRD.LOG;*') ;      ! [06]
; 0332 2 Log_FAB[FAB$B_FNS] = %CHARCOUNT( 'SYS$MAINTENANCE:CRD.LOG;*') ;      ! [06]
; 0333 2 %ERASE (FAB=Log_FAB);      ! [06]
; 0334 2
; 0335 2 ! Create a new blank file
; 0336 2
; 0337 2 Log_FAB[FAB$L_FNA] = UPLIT(%ASCII 'SYS$MAINTENANCE:CRD.LOG' );      ! [06]
; 0338 2 Log_FAB[FAB$B_FNS] = %CHARCOUNT( 'SYS$MAINTENANCE:CRD.LOG' );      ! [06]
; 0339 2 %OPEN (FAB=Log_FAB);      ! [06]
; 0340 2
; 0341 2 ! Construct the log file page header
; 0342 2
; P 0343 2 $LOAD_ASCII_S (      ! [06]
; P 0344 2     NAM = DESC,      ! [06]
; P 0345 2     STR = '!/^!/ Customer Runnable Diagnostics Log file!10 !%D!/^/!'      ! [06]
; P 0346 2 );      ! [06]
; P 0347 2 $FAO (      ! [06]
; P 0348 2     DESC, ! PIC ASCII string      ! [06]
; P 0349 2     Header_Size, ! Store size of constructed string here      ! [06]
; P 0350 2     Header_Buff ); ! Store constructed string here      ! [06]
; 0351 2
; 0352 2 !Write the header record into the log file
; 0353 2
; 0354 2 Log_RAB[RAB$L_RBF] = .Header_Buff;      ! [06]

```

ZZ-ENSAB-2.0 CRD\$Error_Log routine
CRDINTRFC CRD\$INTRFC module 19-Sep-1985 16:54:11 VAX-11 Bliss-32 V4.1-746
07 CRD\$Error_Log routine 19-Sep-1985 12:31:52 [DS.CRD.V020]CRDINTRFC.B32;1

M 11

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Fiche 4 Frame M11

Sequence 760

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```
; 0355 2 Log_RAB[RAB$W_RSZ] = .Header_Size;      ! [06]
; 0356 2 $WRITE (RAB=Log_RAB);                    ! [06]
; 0357 2 RETURN CRD$K_Success;                      ! [06]
; 0358 1 END;                                       ! [06]
```

.PSECT WORK,NOEXE,2

```
000A0 DESC: .BLKB 8
000A8 HEADER_SIZE:
.BLKB 2
000AA .BLKB 2
000AC HEADER_BUFF:
.BLKB 132
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```
45 43 4E 41 4E 45 54 4E 49 41 4D 24 53 59 53 0001C P.AAC: .ASCII \SYS$MAINTENANCE:CRD.LOG;*\<0><0><0> ;
00 00 00 2A 3B 47 4F 4C 2E 44 52 43 3A 0002B ;
45 43 4E 41 4E 45 54 4E 49 41 4D 24 53 59 53 00038 P.AAD: .ASCII \SYS$MAINTENANCE:CRD.LOG\<0> ;
00 00 47 4F 4C 2E 44 52 43 3A 00047 ;
20 72 65 6D 6F 74 73 75 43 20 2F 21 5E 2F 21 00050 P.AAE: .ASCII \!/^!/ Customer Runnable Diagnostics Log \ ;
6F 6E 67 61 69 44 20 65 6C 62 61 6E 75 52 0005F ;
20 67 6F 4C 20 73 63 69 74 73 0006E ;
2F 21 2F 21 44 25 21 20 30 31 21 65 6C 69 66 00078 .ASCII \file!10 !%D!/^!\<0> ;
00 00087 ;
```

```
.EXTRN SYS$ERASE, SYS$OPEN
.EXTRN SYS$FAO, SYS$WRITE
```

.PSECT CODE,NOWRT, SHR, PIC,2

```
0000 00000 .ENTRY CRD$LOG_START, Save nothing ; 0303
00000000' EF 00000000' EF 9E 00002 MOVAB LOG_FAB, LOG_RAB+60 ; 0327
00000000' EF 00000000' EF 9E 0000D MOVAB P.AAC, LOG_FAB+44 ; 0331
00000000' EF 19 90 00018 MOVB #25, LOG_FAB+52 ; 0332
00000000' EF 9F 0001F PUSHAB LOG_FAB ; 0333
00000000G 00 01 FB 00025 CALLS #1, SYS$ERASE ;
00000000' EF 00000000' EF 9E 0002C MOVAB P.AAD, LOG_FAB+44 ; 0337
00000000' EF 17 90 00037 MOVB #23, LOG_FAB+52 ; 0338
00000000' EF 9F 0003E PUSHAB LOG_FAB ; 0339
00000000G 00 01 FB 00044 CALLS #1, SYS$OPEN ;
00000000' EF 010E0037 8F D0 0004B MOVL #17694775, DESC ; 0346
00000000' EF 00000000' EF 9E 00056 MOVAB P.AAE, DESC+4 ;
00000000' EF 9F 00061 PUSHAB HEADER_BUFF ; 0350
00000000' EF 9F 00067 PUSHAB HEADER_SIZE ;
00000000' EF 9F 0006D PUSHAB DESC ;
00000000G 00 03 FB 00073 CALLS #3, SYS$FAO ;
00000000' EF 00000000' EF D0 0007A MOVL HEADER_BUFF, LOG_RAB+40 ; 0354
00000000' EF 00000000' EF B0 00085 MOVW HEADER_SIZE, LOG_RAB+34 ; 0355
00000000' EF 9F 00090 PUSHAB LOG_RAB ; 0356
00000000G 00 01 FB 00096 CALLS #1, SYS$WRITE ;
50 01 D0 0009D MOVL #1, R0 ; 0357
04 000A0 RET ; 0358
```

```

ZZ-ENSAB-2.0      CRD$Error_Log routine      N 11      19-Sep-1985      Fiche 4      Frame N11      Sequence 761
CRDINTRFC CRD$INTRFC module      19-Sep-1985 16:54:11 VAX-11 Bliss-32 V4.1-746      Page 14
07 CRD$Error_Log routine      19-Sep-1985 12:31:52 [DS.CRD.V020]CRDINTRFC.B32;1      (7)

```

: 0359 1


```

; 0360 1 GLOBAL ROUTINE CRD$Log_Stop =
; 0361 1
; 0362 1 ! *****
; 0363 1 ! *
; 0364 1 ! Function:
; 0365 1 ! This routine will simply close the SYS$MAINTENACNE:CRD.LOG file
; 0366 1 !
; 0367 1 ! Calling sequence:
; 0368 1 ! CALLS #0,L^CRD$Log_Stop
; 0369 1 !
; 0370 1 ! Return Status:
; 0371 1 ! All operation, pass or fail return success
; 0372 1 ! -
; 0373 1 ! *****
; 0374 1
; 0375 2 BEGIN
; 0376 2
; 0377 2 Log_RAB[RAB$L_FAB] = Log_FAB; ! [06]
; 0378 2 $CLOSE (FAB=Log_FAB); ! [06]
; 0379 2
; 0380 2 RETURN CRD$K_Success; ! [06]
; 0381 1 END; ! [06]

```

.EXTRN SYS\$CLOSE

```

0000 00000 .ENTRY CRD$LOG_STOP, Save nothing ; 0360
00000000' EF 00000000' EF 9E 00002 MOVAB LOG_FAB, LOG_RAB+60 ; 0377
00000000' EF 9F 0000D PUSHAB LOG_FAB ; 0378
00000000G 00 01 FB 00013 CALLS #1, SYS$CLOSE ;
50 01 D0 0001A MOVL #1, R0 ; 0380
04 0001D RET ; 0381

```

; Routine Size: 30 bytes, Routine Base: CODE + 01E4

; 0382 1

```

; 0383 1
; 0384 1 GLOBAL ROUTINE CRD$Log_Write =
; 0385 1
; 0386 1 !*****
; 0387 1 !*
; 0388 1 ! Function:
; 0389 1 ! This routine writes the string passed via Adr and Len into
; 0390 1 ! SYS$MAINTENACNE:CRD.LOG.
; 0391 1 !
; 0392 1 ! Calling sequence:
; 0393 1 ! PUSHL Length
; 0394 1 ! PUSHAB Buffer
; 0395 1 ! CALLS #2,L^CRD$Log_Write
; 0396 1 !
; 0397 1 ! Return Status:
; 0398 1 ! All operation, pass or fail return success
; 0399 1 !-
; 0400 1 !*****
; 0401 2 BEGIN
; 0402 2 BUILTIN
; 0403 2 ACTUALPARAMETER;
; 0404 2
; 0405 2 ! Write the passed string into the log file
; 0406 2
; 0407 2 Log_RAB[RAB$L_FAB] = Log_FAB; ! This is for Position Independent code ! [06]
; 0408 2 Log_RAB[RAB$L_RBF] = ACTUALPARAMETER(1); ! [06]
; 0409 2 Log_RAB[RAB$W_RSZ] = ACTUALPARAMETER(2); ! [06]
; 0410 2 $WRITE (RAB=Log_RAB); ! [06]
; 0411 2 RETURN CRD$K_Success; ! [06]
; 0412 1 END; ! [06]

```

```

0000 00000 .ENTRY CRD$LOG_WRITE, Save nothing ; 0384
00000000' EF 00000000' EF 9E 00002 MOVAB LOG_FAB, LOG_RAB+60 ; 0407
00000000' EF 04 AC D0 0000D MOVL 4(AP), LOG_RAB+40 ; 0408
00000000' EF 08 AC B0 00015 MOVW 8(AP), LOG_RAB+34 ; 0409
00000000' EF 9F 0001D PUSHAB LOG_RAB ; 0410
00000000G 00 01 FB 00023 CALLS #1, SYS$WRITE ;
50 01 D0 0002A MOVL #1, R0 ; 0411
04 0002D RET ; 0412

```

; Routine Size: 46 bytes, Routine Base: CODE + 0202

```

; 0413 1
; 0414 1 END ! End of CRDINTRFC module
; 0415 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	136	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	304	NOVEC, WRT, RD ,NOEXE,NGSHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	560	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol Type Defined Referenced ...

\$BITPOSITION	Macro	Lib04	109		
\$CLOSE	KeyWMacr	Lib04	378		
\$CRD_LITERALS	Macro	Lib01	79		
\$CRD_RETURN_LENGTH_STATUS	Macro	Lib01	285		
\$DS_DSADef	Macro	Lib03	78		
\$DS_TYPEDEF	Macro	Lib03	80		
\$EQUList	Macro	Lib04	79	80	
\$ER	Comptime	100			
\$ERASE	KeyWMacr	Lib04	333		
\$FAB	KeyWMacr	Lib04	109		
\$FAB_DECL	Macro	Lib04	109		
\$FAO	Macro	Lib04	347		
\$LOAD_ASCID_S	KeyWMacr	102	274	343	
\$MODULE	Bind	100			
\$OPEN	KeyWMacr	Lib04	339		
\$RAB	KeyWMacr	Lib04	110		
\$RAB_DECL	Macro	Lib04	110		
\$RAB_DECL_ASYNC	Unbound		110		
\$RMS_BITFLD	Macro	Lib04	109	110	
\$RMS_BITS	Unbound		109	110	
	Macro	Lib04	109		
\$RMS_CODFLD	Macro	Lib04	109	110	
\$RMS_OR	Macro	Lib04	109		
\$RMS_VALFLD	Unbound		109		
	Macro	Lib04	109	110	
\$WRITE	KeyWMacr	Lib04	356	410	
ACTUALPARAMETER	Builtin		403	408	409
ADDRESS	RoutForm	118	259.	279a=	291.
AP	Builtin		408	408.	
	Builtin		409	409.	
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal			79	
AUTO\$K_EXIT_CONTROL_C	Literal			79	
AUTO\$K_EXIT_DUMMY_2	Literal			79	
AUTO\$K_EXIT_DUMMY_3	Literal			79	
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal			79	
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal			79	
AUTO\$K_EXIT_INTERNAL_ERROR	Literal			79	
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal			79	
AUTO\$K_EXIT_LAST_REASON	Literal		79	79	
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal			79	

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Symbol	Type	Defined	Referenced ...
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	79	
AUTOSK_EXIT_NOERRORS_PREP	Literal	79	
CODE	RoutForm	118 196 227 237 245 263 271	
COMMAND	Own	167 274= 275 276a	
CRD\$CRD_INITIALIZATION	ExtRout	Lib01 209c	
CRD\$DS_INTERFACE	GlobRout	118 Lib01e 69f	
CRD\$GB_USER_PROMPT_OKAY	Global	113 Lib01e 113= 227	
CRD\$K_ACTION_EQL_DO NOTHING	Literal	79	
CRD\$K_ACTION_RANGE_ERROR	Literal	79	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	79	
CRD\$K_ADVANCE_GENERAL_COM	Literal	79	
CRD\$K_ADVANCE_STATE	Literal	79	
CRD\$K_ALLOCATION_ERROR	Literal	79	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	79	
CRD\$K_AUTOSIZER_ERROR	Literal	79	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	79	
CRD\$K_BAD_ACTION_NUMBER	Literal	79	
CRD\$K_BAD_TYPECODE_ERROR	Literal	79	
CRD\$K_BASE_SYSTEM_IDC	Literal	79	
CRD\$K_BASE_SYSTEM_LESI	Literal	79	
CRD\$K_BASE_SYSTEM_NULL	Literal	79	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	79	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	79	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	79	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	79	
CRD\$K_CRD_INITIALIZATION	Literal	79 198	
CRD\$K_CREATE_HST	Literal	79	
CRD\$K_DATA_LENGTH_ERROR	Literal	79	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	79	
CRD\$K_DDB_BLINK	Literal	79	
CRD\$K_DDB_FLINK	Literal	79	
CRD\$K_DDB_LAST_ENTRY	Literal	79	
CRD\$K_DDB_MEMORY_SIZE	Literal	79	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	79	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	79	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	79	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	79	
CRD\$K_DDB_PTABLE_ENTRY	Literal	79	
CRD\$K_DDB_STATUS	Literal	79	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	79	
CRD\$K_DEVICE_NAME	Literal	79	
CRD\$K_DIAGNOSTIC_ERROR	Literal	79	
CRD\$K_DIAGNOSTIC_NAME	Literal	79	
CRD\$K_DONE_GENERAL_COMS	Literal	79	
CRD\$K_DO NOTHING	Literal	79	
CRD\$K_DS_COMMAND_SIZE	Literal	Lib01 285	
CRD\$K_DUMMY_10	Literal	79	
CRD\$K_DUMMY_11	Literal	79	
CRD\$K_DUMMY_12	Literal	79	
CRD\$K_DUMMY_13	Literal	79	
CRD\$K_DUMMY_3	Literal	79	
CRD\$K_DUMMY_4	Literal	79	
CRD\$K_DUMMY_5	Literal	79	

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Symbol	Type	Defined	Referenced ...
CRD\$K_DUMMY_6	Literal	79	
CRD\$K_DUMMY_7	Literal	79	
CRD\$K_DUMMY_8	Literal	79	
CRD\$K_DUMMY_9	Literal	79	
CRD\$K_EXIT_CRD	Literal	79	
CRD\$K_HOOK_POINT	Literal	79	194
CRD\$K_HS_INTERNAL_ERROR	Literal	79	
CRD\$K_IDC_EVDLB	Literal	79	
CRD\$K_IDC_EVDLC	Literal	79	
CRD\$K_IDC_EVDLD	Literal	79	
CRD\$K_IDC_EVRAD_0	Literal	79	
CRD\$K_IDC_EVRAD_1	Literal	79	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	79	
CRD\$K_INTERNAL_ERROR	Literal	79	
CRD\$K_LAST_ACTION_ROUTINE	Literal	79	
CRD\$K_LAST_ENTRY	Literal	79	
CRD\$K_LAST_FUNCTION	Literal	79	192
CRD\$K_LAST_HOOK_POINT	Literal	79	196
CRD\$K_LAST_INTERNAL_ERROR	Literal	79	
CRD\$K_LAST_TYPE	Literal	79	
CRD\$K_LESI_ENWCA	Literal	79	
CRD\$K_LESI_EVRMB_0	Literal	79	
CRD\$K_LESI_EVRMB_1	Literal	79	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	79	
CRD\$K_LEVEL_4_PASSED	Literal	79	
CRD\$K_LOAD_AUTOSIZER	Literal	79	
CRD\$K_LOAD_ERROR	Literal	79	
CRD\$K_LOAD_GENERAL_COM	Literal	79	
CRD\$K_LOAD_LOAD_COM	Literal	79	
CRD\$K_LOAD_SELECT_COM	Literal	79	
CRD\$K_LOAD_SET_EVENT_COM	Literal	79	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	79	
CRD\$K_LOAD_START_COM	Literal	79	
CRD\$K_LOAD_SUP_FILE	Literal	79	
CRD\$K_MM_INTERNAL_ERROR	Literal	79	
CRD\$K_NEW_LINE	Literal	79	
CRD\$K_PREPARATION_ERROR	Literal	79	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	79	
CRD\$K_RUNTIME	Literal	79	
CRD\$K_SAME_LINE	Literal	79	
CRD\$K_SET_EVENT_ARGS	Literal	79	
CRD\$K_SET_FLAGS_ARGS	Literal	79	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	79	
CRD\$K_START	Literal	79	
CRD\$K_START_AUTOSIZER	Literal	79	
CRD\$K_START_ERROR	Literal	79	
CRD\$K_START_QUALIFIERS	Literal	79	
CRD\$K_STAR_LINE	Literal	79	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	79	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	79	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	79	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	79	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	79	

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Symbol	Type	Defined	Referenced ...
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	79	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	79	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	79	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	79	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	79	
CRD\$K_STATE_DUMMY_1	Literal	79	
CRD\$K_STATE_DUMMY_10	Literal	79	
CRD\$K_STATE_DUMMY_12	Literal	79	
CRD\$K_STATE_DUMMY_13	Literal	79	
CRD\$K_STATE_DUMMY_2	Literal	79	
CRD\$K_STATE_DUMMY_3	Literal	79	
CRD\$K_STATE_DUMMY_4	Literal	79	
CRD\$K_STATE_DUMMY_6	Literal	79	
CRD\$K_STATE_DUMMY_7	Literal	79	
CRD\$K_STATE_DUMMY_8	Literal	79	
CRD\$K_STATE_EXIT_CRD	Literal	79	
CRD\$K_STATE_INTERNAL_ERROR	Literal	79	
CRD\$K_STATE_LAST_STATE	Literal	79	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	79	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	79	
CRD\$K_STATE_LOAD_ERROR	Literal	79	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	79	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	79	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	79	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	79	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	79	
CRD\$K_STATE_LOAD_START_COM	Literal	79	
CRD\$K_STATE_PREPARATION_ERROR	Literal	79	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	79	
CRD\$K_STATE_START	Literal	79	
CRD\$K_STATE_START_AUTOSIZER	Literal	79	
CRD\$K_STATE_START_ERROR	Literal	79	
CRD\$K_SUCCESS	Unbound	285	
CRD\$K_SUCCESS	Literal Lib01	264 285 357 380 411	
CRD\$K_TEST_START_TEXT	Literal	79	
CRD\$K_TQ_INTERNAL_ERROR	Literal	79	
CRD\$K_TYPECODE	Literal	79 221	
CRD\$K_UDA_0_EVDLB	Literal	79	
CRD\$K_UDA_0_EVDLC	Literal	79	
CRD\$K_UDA_0_EVDLD	Literal	79	
CRD\$K_UDA_0_EVRLA_0	Literal	79	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	79	
CRD\$K_UDA_1_EVDLB	Literal	79	
CRD\$K_UDA_1_EVDLC	Literal	79	
CRD\$K_UDA_1_EVDLD	Literal	79	
CRD\$K_UDA_1_EVRLA_0	Literal	79	
CRD\$K_UDA_1_EVRLA_1	Literal	79	
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	79	
CRD\$K_UDA_2_EVDLB	Literal	79	
CRD\$K_UDA_2_EVDLC	Literal	79	
CRD\$K_UDA_2_EVDLD	Literal	79	
CRD\$K_UDA_2_EVRLA_0	Literal	79	
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	79	

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Symbol Type Defined Referenced ...

CRD\$K_UDA_3_EVDLB	Literal	79	
CRD\$K_UDA_3_EVDLC	Literal	79	
CRD\$K_UDA_3_EVDLD	Literal	79	
CRD\$K_UDA_3_EVRLA_0	Literal	79	
CRD\$K_UDA_3_EVRLA_1	Literal	79	
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	79	
CRD\$LOG_START	GlobRout	303	72f
CRD\$LOG_STOP	GlobRout	360	73f
CRD\$LOG_WRITE	GlobRout	384	74f
CRD\$TURING_MACHINE	ExtRout	Lib01	259c
DESC Own		321 346=	350a
DS\$K_PRINTB	Literal	80	
DS\$K_PRINTF	Literal	80	
DS\$K_PRINTI	Literal	80	
DS\$K_PRINTX	Literal	80	
DS\$K_TYPE_ABORT_PROGRAM	Literal	80	
DS\$K_TYPE_ABORT_TEST	Literal	80	
DS\$K_TYPE_COMMAND_ERR	Literal	80	
DS\$K_TYPE_COMMAND_OUT	Literal	80	
DS\$K_TYPE_CRD_AUTOTEST	Literal	80	
DS\$K_TYPE_DS_PROMPT	Literal	80	240 271
DS\$K_TYPE_DS_START	Literal	80	263
DS\$K_TYPE_ERRDEV	Literal	80	
DS\$K_TYPE_ERRHARD	Literal	80	
DS\$K_TYPE_ERROR_BODY	Literal	80	
DS\$K_TYPE_ERROR_END	Literal	80	
DS\$K_TYPE_ERRPREP	Literal	80	
DS\$K_TYPE_ERRSOFT	Literal	80	
DS\$K_TYPE_ERRSUP	Literal	80	
DS\$K_TYPE_ERRSYS	Literal	80	
DS\$K_TYPE_ERR_HALT	Literal	80	
DS\$K_TYPE_EXCEPTION	Literal	80	
DS\$K_TYPE_EXCEPTION_HEAD	Literal	80	
DS\$K_TYPE_FIRST_PASS	Literal	80	
DS\$K_TYPE_GENERAL	Literal	80	
DS\$K_TYPE_GENERAL_ERROR	Literal	80	
DS\$K_TYPE_NO_TESTS	Literal	80	
DS\$K_TYPE_PARAM_ERROR	Literal	80	
DS\$K_TYPE_PROGRAM_END	Literal	80	
DS\$K_TYPE_PROGRAM_INFO	Literal	80	
DS\$K_TYPE_PROGRAM_START	Literal	80	
DS\$K_TYPE_QIO_INVADP	Literal	80	
DS\$K_TYPE_QIO_NODRIVER	Literal	80	
DS\$K_TYPE_QIO_WRONGVER	Literal	80	
DS\$K_TYPE_SCRIPT_ECHO	Literal	80	237
DS\$K_TYPE_SCRIPT_PNF	Literal	80	
DS\$K_TYPE_SCRIPT_PROMPT	Literal	80	
DS\$K_TYPE_SCRIPT_SKIP	Literal	80	
DS\$K_TYPE_SEQUENCE_ERROR	Literal	80	
DS\$K_TYPE_START_ERR	Literal	80	
DS\$K_TYPE_START_LIST	Literal	80	
DS\$K_TYPE_SUMMARY	Literal	80	
DS\$K_TYPE_USER_PROMPT	Literal	80	227

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Symbol	Type	Defined	Referenced ...
DSASAL_APTMAIL	Bind	78	78
DSASGL_APTCOM	Bind	78	
DSASGL_DEVLEN	Bind	78	
DSASGL_DEVNAM	Bind	78	
DSASGL_ERRNO	Bind	78	
DSASGL_EVENT	Bind	78	
DSASGL_FLAGS	Bind	78	182 183 184 281 282 283 284
DSASGL_MSGPTR	Bind	78	
DSASGL_MSGTYP	Bind	78	
DSASGL_PASSES	Bind	78	
DSASGL_PASSNO	Bind	78	
DSASGL_SECTNO	Bind	78	
DSASGL_SID	Bind	78	208 258 262 269 270
DSASGL_SUBTNO	Bind	78	
DSASGL_TESTNO	Bind	78	
DSASGL_UNITS	Bind	78	
DSASV_CRD_AUTOTEST_OFF	Macro	Lib03	182 281
DSASV_CRD_MENUTEST_OFF	Macro	Lib03	183 282
DSASV_CRD_MENUTEST_ON	Macro	Lib03	184 283
DSASV_CRD_TRACE	Macro	Lib03	284
DSA_EXTRACT	Register	164	181= 182= 183= 184= 203. 213. 252.
DSC\$K_CLASS_S	Unbound		105
Literal	Lib04	274	346
DSC\$K_DTYPE_T	Unbound		104
Literal	Lib04	274	346
FAB\$B_FNS	Macro	Lib04	332 338
FAB\$C_BID	Literal	Lib04	109
FAB\$C_BLN	Literal	Lib04	109
FAB\$C_SEQ	Literal	Lib04	109
FAB\$C_VAR	Literal	Lib04	109
FAB\$L_FNA	Macro	Lib04	331 337
FAB\$M_CR	Literal	Lib04	109
FAB\$M_GET	Literal	Lib04	109
FAB\$V_CHAN_MODE	Macro	Lib04	109
FAB\$V_FILE_MODE	Macro	Lib04	109
FAB\$V_LNM_MODE	Macro	Lib04	109
FALSE	Literal	Lib01	113
FUNCTION	RoutForm	118	192.
GET1ST	Macro	Lib04	79 80
GET2ND	Unbound		79 80
HEADER_BUFF	Own	323	350a 354.
HEADER_SIZE	Own	322	350a 355.
HSS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		79
HSS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		79
HSS\$K_ACTION_ADVANCE_STATE	Literal		79
HSS\$K_ACTION_CHANGE_TABLE	Literal		79
HSS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		79
HSS\$K_ACTION_DONE_GENERAL_COMS	Literal		79
HSS\$K_ACTION_DO_NOTHING	Literal		79
HSS\$K_ACTION_DUMMY_3	Literal		79
HSS\$K_ACTION_DUMMY_4	Literal		79
HSS\$K_ACTION_DUMMY_5	Literal		79
HSS\$K_ACTION_DUMMY_6	Literal		79

Symbol	Type	Defined	Referenced ...
HS\$K_ACTION_INIT_HS	Literal	79	
HS\$K_ACTION_INTERNAL_ERROR	Literal	79	
HS\$K_ACTION_LAST_ACTION	Literal	79	
HS\$K_ACTION_LOAD_ERROR	Literal	79	
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	79	
HS\$K_ACTION_LOAD_LOAD_COM	Literal	79	
HS\$K_ACTION_LOAD_SELECT_COM	Literal	79	
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	79	
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	79	
HS\$K_ACTION_LOAD_START_COM	Literal	79	
HS\$K_ACTION_PREPARATION_ERROR	Literal	79	
HS\$K_ACTION_START_ERROR	Literal	79	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	79	
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	79	
HS\$K_STATE_CHANGE_TABLE	Literal	79	
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	79	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	79	
HS\$K_STATE_DONE_GENERAL_COMS	Literal	79	
HS\$K_STATE_DUMMY_1	Literal	79	
HS\$K_STATE_DUMMY_2	Literal	79	
HS\$K_STATE_DUMMY_3	Literal	79	
HS\$K_STATE_DUMMY_4	Literal	79	
HS\$K_STATE_DUMMY_6	Literal	79	
HS\$K_STATE_INIT_HS	Literal	79	
HS\$K_STATE_INTERNAL_ERROR	Literal	79	
HS\$K_STATE_LAST_STATE	Literal	79	
HS\$K_STATE_LOAD_ERROR	Literal	79	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	79	
HS\$K_STATE_LOAD_LOAD_COM	Literal	79	
HS\$K_STATE_LOAD_SELECT_COM	Literal	79	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	79	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	79	
HS\$K_STATE_LOAD_START_COM	Literal	79	
HS\$K_STATE_PREPARATION_ERROR	Literal	79	
HS\$K_STATE_START_ERROR	Literal	79	
LENGTH	RouteForm	118 246	
LOG_FAB	Own	109 109=	327a 331= 332= 333a 337= 338= 339a 377a 378a
		407a	
LOG_RAB	Own	110 110=	327= 354= 355= 356a 377= 407= 408= 409= 410a
MEN\$K_HS_STATE_TABLE	Literal	79	
MEN\$K_MM_STATE_TABLE	Literal	79	
MEN\$K_TQ_STATE_TABLE	Literal	79	
MEN\$MENU_FNCT\$T\$INIT	ExtRoute	Lib01 213c	
MEN\$TURING_MACHINE	ExtRoute	Lib01 291c	
MENU\$K_EXIT_AUTOSIZER_ERROR	Literal	79	
MENU\$K_EXIT_INTERNAL_ERROR	Literal	79	
MENU\$K_EXIT_LAST_REASON	Literal	79	
MENU\$K_EXIT_OPERATOR_ABORT	Literal	79	
MENU\$K_EXIT_OPERATOR_STOP	Literal	79	
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	79	
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	79	
MM\$K_ACTION_ADVANCE_STATE	Literal	79	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	79	

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Symbol	Type	Defined	Referenced	...
MM\$K_ACTION_BUILD_DDBS	Literal	79		
MM\$K_ACTION_BUILD_HSTS	Literal	79		
MM\$K_ACTION_CHANGE_TABLE	Literal	79		
MM\$K_ACTION_DONE_INITS	Literal	79		
MM\$K_ACTION_DO_NOTHING	Literal	79		
MM\$K_ACTION_DUMMY_3	Literal	79		
MM\$K_ACTION_DUMMY_4	Literal	79		
MM\$K_ACTION_DUMMY_5	Literal	79		
MM\$K_ACTION_DUMMY_6	Literal	79		
MM\$K_ACTION_DUMMY_7	Literal	79		
MM\$K_ACTION_DUMMY_8	Literal	79		
MM\$K_ACTION_INTERNAL_ERROR	Literal	79		
MM\$K_ACTION_LAST_ACTION	Literal	79		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	79		
MM\$K_ACTION_MENU_PROMPT	Literal	79		
MM\$K_ACTION_PRINT_MENU	Literal	79		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	79		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	79		
MM\$K_ACTION_START_AUTOSIZER	Literal	79		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	79		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	79		
MM\$K_STATE_BUILD_DDBS	Literal	79		
MM\$K_STATE_BUILD_HSTS	Literal	79		
MM\$K_STATE_CHANGE_TABLE	Literal	79		
MM\$K_STATE_DONE_INITS	Literal	79		
MM\$K_STATE_DUMMY_1	Literal	79		
MM\$K_STATE_DUMMY_2	Literal	79		
MM\$K_STATE_DUMMY_3	Literal	79		
MM\$K_STATE_DUMMY_5	Literal	79		
MM\$K_STATE_DUMMY_7	Literal	79		
MM\$K_STATE_DUMMY_8	Literal	79		
MM\$K_STATE_INTERNAL_ERROR	Literal	79		
MM\$K_STATE_LAST_STATE	Literal	79		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	79		
MM\$K_STATE_MENU_PROMPT	Literal	79		
MM\$K_STATE_PRINT_MENU	Literal	79		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	79		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	79		
MM\$K_STATE_START	Literal	79		
MM\$K_STATE_START_AUTOSIZER	Literal	79		
MODNAM	Macro	Lib02	100	
NAM	KeyWForm	102	103	104 105 106
NUL2ND	Macro	Lib04	79	80
P1	Register	164	240=	245= 259. 291.
P2	Register	164	241=	246= 259. 278. 291.
PR\$_SID_TYP730	Literal	Lib04	208	258
PR\$_SID_TYP8NN	Literal	Lib04	270	
PR\$_SID_TYP8SS	Literal	Lib04	262	269
RAB\$C_BID	Literal	Lib04	110	
RAB\$C_BLN	Literal	Lib04	110	
RAB\$C_SEQ	Literal	Lib04	110	
RAB\$L_FAB	Macro	Lib04	327	377 407
RAB\$L_RBF	Macro	Lib04	354	408

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Symbol	Type	Defined	Referenced	...
RAB\$W_RSZ	Macro	Lib04 355	409	
RETURN_VALUE	Register	164 209=	210= 213= 214= 215= 218= 229= 259= 264= 287=	
SDL\$STARLET_CONCAT	Macro	Lib04 333	339 356 378 410	
SDL\$STARLET_OPT	Macro	Lib04 333	339 356 378 410	
SDL\$STARLET_REQ	Macro	Lib04 333	339 356 378 410	
STR	KeyWForm	102 103 106		
SYS\$CLOSE	ExtRout	378 378c		
SYS\$ERASE	ExtRout	333 333c		
SYS\$FAO	ExtRout	350 350c		
SYS\$OPEN	ExtRout	339 339c		
SYS\$WRITE	ExtRout	356 356c	410e 410c	
TQ\$K_ACTION_ADVANCE_STATE	Literal	79		
TQ\$K_ACTION_CHANGE_TABLE	Literal	79		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	79		
TQ\$K_ACTION_DO_NOTHING	Literal	79		
TQ\$K_ACTION_DUMMY_3	Literal	79		
TQ\$K_ACTION_DUMMY_4	Literal	79		
TQ\$K_ACTION_DUMMY_5	Literal	79		
TQ\$K_ACTION_GET_DDB	Literal	79		
TQ\$K_ACTION_INIT_TQ	Literal	79		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	79		
TQ\$K_ACTION_LAST_ACTION	Literal	79		
TQ\$K_STATE_CHANGE_TABLE	Literal	79		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	79		
TQ\$K_STATE_DUMMY_1	Literal	79		
TQ\$K_STATE_DUMMY_2	Literal	79		
TQ\$K_STATE_DUMMY_3	Literal	79		
TQ\$K_STATE_DUMMY_4	Literal	79		
TQ\$K_STATE_DUMMY_5	Literal	79		
TQ\$K_STATE_GET_DDB	Literal	79		
TQ\$K_STATE_INIT_TQ	Literal	79		
TQ\$K_STATE_INTERNAL_ERROR	Literal	79		
TQ\$K_STATE_LAST_STATE	Literal	79		

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDINTRFC.B32;1
2	Module	CRDINTRFC
59	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
60	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
61	Library #3	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
62	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
415	Eludom	CRDINTRFC

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Symbols			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1					
486	11	2		62	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17					
671	1	0		46	00:00.2
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30					
923	6	0		94	00:00.2
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			43	0
				1000	00:04.5

COMMAND QUALIFIERS

BLISS CRDINTRFC.B32/LIST=CRDINTRFC.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDINTRFC.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 560 code + 440 data bytes

Run Time: 00:26.0

Elapsed Time: 00:48.5

Lines/CPU Min: 956

Lexemes/CPU-Min: 55274

Memory Used: 224 pages

Compilation Complete

```
; 0001 0 xTITLE '*** CRDMMACT Module'
; 0002 0 MODULE CRDMMACT ( ! Action routines for the Main Menu State Table
; 0003 0 IDENT = 'V01.4'
; 0004 0 ) =
; 0005 0 !+
; 0006 0 ! COPYRIGHT (c) 1980, 1981,1985
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !-
```

22-ENSAB-2.0
CRDMMACT ***
V01.4

*** CRDMMACT Module
CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746
30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (2)

B 13

19-Sep-1985

Fiche 4 Frame B13
Page 2

Sequence 775

```

: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : This module contains those action routines for the Main Menu
: 0032 0 : State Table.
: 0033 0 :
: 0034 0 : History:
: 0035 0 :
: 0036 0 : 00 Jack Stansbury, July 30,1982
: 0037 0 :   Created module
: 0038 0 :
: 0039 0 : 01 Jack Stansbury, March 3, 1983, Version ?.?
: 0040 0 :   Changed the debugging strategy - i.e., the strategy dealing with the CRD Debug Vector.
: 0041 0 :   Took all the code out of the
: 0042 0 :
: 0043 0 : 02 Scott Cohen, June 17, 1983, Version 1.2
: 0044 0 :   Added support for soft console by
: 0045 0 :   - $SCREEN_Literals.
: 0046 0 :   - Changed MM$Build_DDBs to pause when AutoSizer is finished.
: 0047 0 :
: 0048 0 : 03 Ron Parker October 17,1984
: 0049 0 :   - Modified Load, Set_flags and Start autosizer routines
: 0050 0 :   for the online autosizer.
: 0051 0 :
: 0052 0 : 04 Ron Parker Febuary 27,1985
: 0053 0 :   - Modified load, !   for the online autosizer.
: 0054 0 : --
```

```
; 0055 0 xSBTTL 'Libraries'
; 0056 0
; 0057 0
; 0058 1 BEGIN      ! Begin the CRDMMACT module
; 0059 1
; 0060 1 LIBRARY
; 0061 1 '$DS';      ! Use Ds.L32 first
; 0062 1
; 0063 1 LIBRARY
; 0064 1 '$Diag';    ! Use Diag.L32 second
; 0065 1
; 0066 1 LIBRARY
; 0067 1 '$CRD';     ! Use CRD.L32 third
; 0068 1
; 0069 1 LIBRARY
; 0070 1 'DISK$DS:[DS.EVSBB.DEF]EVSBB_DEF';! Use Lib for EVSBB stuff
; 0071 1
; 0072 1 LIBRARY
; 0073 1 'Sys$Library:Lib'; ! Use Lib as last resort
; 0074 1
; 0075 1
; 0076 1
; 0077 1 xSBTTL 'Table of Contents'
; 0078 1
; 0079 1 EXTERNAL ROUTINE
; 0080 1 MEN$GENERATE_ONLINE_ATTACH : ADDRESSING_MODE (LONG_RELATIVE);
; 0081 1
; 0082 1 FORWARD ROUTINE
; 0083 1 MM$Print_Menu_Heading : ADDRESSING_MODE (LONG_RELATIVE),
; 0084 1 MM$Load_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 0085 1 MM$Set_Flags_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 0086 1 MM$Start_AutoSizer : ADDRESSING_MODE (LONG_RELATIVE),
; 0087 1
; 0088 1 MM$Build_DDBs : ADDRESSING_MODE (LONG_RELATIVE),
; 0089 1 MM$Build_HSTs : ADDRESSING_MODE (LONG_RELATIVE),
; 0090 1
; 0091 1 MM$Done_Inits : ADDRESSING_MODE (LONG_RELATIVE),
; 0092 1
; 0093 1 MM$Print_Menu : ADDRESSING_MODE (LONG_RELATIVE),
; 0094 1 MM$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
; 0095 1 MM$Menu_Prompt : ADDRESSING_MODE (LONG_RELATIVE),
; 0096 1
; 0097 1 MM$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 0098 1 MM$AutoSizer_Error : ADDRESSING_MODE (LONG_RELATIVE),
; 0099 1
; 0100 1 MEN$Menu_Test_Internal_Error : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0101 1
; 0102 1
; 0103 1
; 0104 1 xSBTTL 'Included Macros and Literals'
; 0105 1
; 0106 1 $DS_DSADef; ! The DSA flags and locations
; 0107 1 $CRD_Literals; ! CRD Literals
; 0108 1 $SCREEN_Literals; ! Define the SCREEN operation literals.
; 0109 1
```

```

: 0110 1 xSBTTL 'Psect Definitions'
: 0111 1
: 0112 1 PSECT
: 0113 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0114 1
: 0115 1 PSECT
: 0116 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
: 0117 1
: 0118 1 PSECT
: 0119 1     OWN     = Work (NOEXECUTE,  NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0120 1
: 0121 1 PSECT
: 0122 1     GLOBAL = Work (NOEXECUTE,  NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0123 1
: 0124 1
: 0125 1
: 0126 1 xSBTTL 'Bindings'
: 0127 1
: 0128 1     ModNam ('CRDMMACT'); ! Module name for ErrSup macro
: 0129 1
: 0130 1 GLOBAL BIND
: 0131 1     CRD$GT_AutoSizer_Name      = $ASCIC ('EVSBA'),
: 0132 1     CRD$GT_AutoSizer_Set_Flags = $ASCIC ('QUICK');
: 0133 1
: 0134 1
: 0135 1 xSBTTL 'VMS Online Autosizer Error Handling macro'
: 0136 1
: M 0137 1 MACRO $Check_OA_Status ( Arg ) =      ! [05]
: M 0138 1     IF (NOT Arg) THEN      ! [05]
: M 0139 1     BEGIN      ! [05]
: M 0140 1     IF (.DSA$V_CRD_Trace) THEN      ! [05]
: M 0141 1     $CRD_PRINT (      ! [05]
: M 0142 1     $ASCIC ('*** ERROR - !AC = !XL'),      ! [05]
: M 0143 1     $ASCIC (xQUOTENAME(Arg)),      ! [05]
: M 0144 1     Arg);      ! [05]
: M 0145 1     $CRD_Print (MEN$GT_Failed_ONL_Autosizer);      ! [05]
: M 0146 1     $CRD_Print (CRD$GT_Autosizer_Error);      ! [05]
: M 0147 1     CRD$STOP (MENU$K_Exit_Autosizer_Error);      ! [05]
: M 0148 1     RETURN (CRD$K_Failure);      ! [05]
: 0149 1     END x;
: 0150 1
: 0151 1 xSBTTL 'Position Independant ASCID macro'
: 0152 1
: M 0153 1 KEYWORDMACRO $LOAD_ASCID_S ( NAM, STR ) =
: M 0154 1     BEGIN
: M 0155 1     NAM[0,00,16,0] = xCHARCOUNT(STR);      ! [03]
: M 0156 1     NAM[0,16,08,0] = DSC$K_DTYPE_T;      ! [03]
: M 0157 1     NAM[0,24,08,0] = DSC$K_CLASS_S;      ! [03]
: M 0158 1     NAM[1,00,32,0] = UPLIT (xASCII STR);      ! [03]
: 0159 1     ENDx;
: 0160 1
: M 0161 1 KEYWORDMACRO $LOAD_ASCID_A ( NAM, ADR, SIZ=0 ) =
: M 0162 1     BEGIN
: M 0163 1     NAM[0,00,16,0] = SIZ;      ! [04]
: M 0164 1     NAM[0,16,08,0] = DSC$K_DTYPE_T;      ! [03]

```


ZZ-ENSAB-2.0 Position Independant ASCID macro E 13
CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame E13 Sequence 778
V01.4 Position Independant ASCID macro 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 Page 5 (4)

; M 0165 1 NAM[0,24,08,0] = DSC\$K_CLASS_S; ! [03]
; M 0166 1 NAM[1,00,32,0] = ADR; ! [04]
; 0167 1 ENDx;

```

: 0168 1 xSBTTL 'MM$Print_Menu_Heading Routine'
: 0169 1
: 0170 1 GLOBAL ROUTINE MM$Print_Menu_Heading =
: 0171 1
: 0172 1 !**
: 0173 1 ! Functional Description:
: 0174 1 !
: 0175 1 ! Describe function of routine
: 0176 1 !
: 0177 1 ! Formal Input Parameters:
: 0178 1 !
: 0179 1 ! None
: 0180 1 !
: 0181 1 ! Formal Output Parameters:
: 0182 1 !
: 0183 1 ! None
: 0184 1 !
: 0185 1 ! Side Effects:
: 0186 1 !
: 0187 1 ! None
: 0188 1 !
: 0189 1 ! Completion Codes:
: 0190 1 !
: 0191 1 ! None
: 0192 1 ! --

```

```

; 0193 2 BEGIN      ! Routine MM$Print_Menu_Heading
; 0194 2 $CRD_Print (MEN$GT_MenuTest_Begin);
; 0195 2      ! Print the Menu Test heading
; 0196 3 RETURN (CRD$K_Repeat_Turing)
; 0197 1 END;      ! Routine MM$Print_Menu_Heading

```

```

.TITLE CRDMMACT *** CRDMMACT Module
.IDENT \V01.4\

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

54 43 41 4D 4D 44 52 43 08 00000 P.AAA: .ASCII <8>\CRDMMACT\      ;
    41 42 53 56 45 05 00009 P.AAB: .ASCII <5>\EVSBA\      ;
    4B 43 49 55 51 05 0000F P.AAC: .ASCII <5>\QUICK\      ;

```

```

DSA$AL_APTMAIL=      65024
DSA$GL_FLAGS=        65024
DSA$GL_APTCOM=        65028
DSA$GL_PASSES=        65032
DSA$GL_UNITS=        65036
DSA$GL_SECTNO=        65040
DSA$GL_SID=          65044
DSA$GL_MSGTYP=        65088
DSA$GL_ERRNO=        65092
DSA$GL_EVENT=        65096
DSA$GL_SUBTNO=        65100
DSA$GL_TESTNO=        65104
DSA$GL_PASSNO=        65108
DSA$GL_DEVLEN=        65112
DSA$GL_DEVNAM=        65116
DSA$GL_MSGPTR=        65128

```

```

$MODULE= P.AAA
CRD$GT_AUTOSIZER_NAME==
P.AAB
CRD$GT_AUTOSIZER_SET_FLAGS==
P.AAC

```

```

.EXTRN MEN$GENERATE_ONLINE_ATTACH
.EXTRN MM$PRINT_MENU_HEADING
.EXTRN MM$LOAD_AUTOSIZER
.EXTRN MM$SET_FLAGS_AUTOSIZER
.EXTRN MM$START_AUTOSIZER
.EXTRN MM$BUILD_DDBS, MM$BUILD_HSTS
.EXTRN MM$DONE_INITS, MM$PRINT_MENU
.EXTRN MM$CHANGE_TABLE
.EXTRN MM$MENU_PROMPT, MM$INTERNAL_ERROR
.EXTRN MM$AUTOSIZER_ERROR
.EXTRN MEN$MENU_TEST_INTERNAL_ERROR
.EXTRN MEN$GT_FAILED_ONL_AUTOSIZER
.EXTRN CRD$GT_AUTOSIZER_ERROR
.EXTRN CRD$STOP, MEN$GT_MENUTEST_BEGIN
.EXTRN CRD$PRINT

```

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

ZZ-ENSAB-2.0 MM\$Print_Menu_Heading Routine H 13
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame H13 Sequence 781
 V01.4 MM\$Print_Menu_Heading Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 Page 8 (6)

```

0000 00000 .ENTRY MM$PRINT_MENU_HEADING, Save nothing ; 0170
000C 00G EF 9F 00002 PUSHAB MEN$GT_MENU$TEST_BEGIN ; 0194
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT ;
50 02 D0 00013 MOVL #2, R0 ; 0196
04 00016 RET ; 0197

```

; Routine Size: 23 bytes, Routine Base: CODE + 0000

```

: 0198 1 xSBTTL 'MM$Load_AutoSizer Routine'
: 0199 1
: 0200 1 GLOBAL ROUTINE MM$Load_Autosizer (CLI_Buffer_Length, CLI_Buffer_address) =
: 0201 1
: 0202 1 *****
: 0203 1 **
: 0204 1 Functional Description:
: 0205 1
: 0206 1 Offline - Creates the LOAD EVSBA command in the VDS and exits
: 0207 1 the routine causing the command to be executed by VDS.
: 0208 1
: 0209 1 Online - This routine will spawn a subprocess to run the ONLINE
: 0210 1 AUTOSIZER product. The ONLINE AUTOSIZER program will
: 0211 1 create a file that will be read by the Set Flags and\
: 0212 1 Start Autosizer routines.
: 0213 1
: 0214 1 The data in the file is a device map of the current
: 0215 1 VAX system.
: 0216 1
: 0217 1 There is no need to check other DSA bits for correctness as this
: 0218 1 has already been done in the CRD$INTERFACE routine.
: 0219 1
: 0220 1 Completion Codes:
: 0221 1
: 0222 1 (Byte_count*10000h) + CRD$K_Success
: 0223 1 CRD$K_Failure
: 0224 1 CRD$K_Success
: 0225 1 --
: 0226 1 *****

```

```

: 0227 2 BEGIN      ! Routine MM$Load_AutoSizer
: 0228 2
: 0229 2 !*****
: 0230 2 !+
: 0231 2 ! Definitions and related things
: 0232 2 !-
: 0233 2 !*****
: 0234 2
: 0235 2 EXTERNAL ROUTINE
: 0236 2 LIB$SPAWN : ADDRESSING_MODE (LONG_RELATIVE);
: 0237 2
: 0238 2 OWN
: 0239 2   CMD : BLOCK [2, LONG],
: 0240 2   OUT : BLOCK [2, LONG],
: 0241 2   IOSTatus, Status : LONG;
: 0242 2
: 0243 2 MAP
: 0244 2   CRD$GT_AutoSizer_Name : VECTOR [, BYTE],
: 0245 2   CRD$GT_DS_LOAD_Com   : VECTOR [, BYTE];
: 0246 2
: 0247 2 !*****
: 0248 2 !+
: 0249 2 ! Start of executable statements
: 0250 2 !-
: 0251 2 !*****
: 0252 2
: 0253 2 $CRD_Print (MEN$GT_AutoSizer_Begin);
: 0254 2
: 0255 2 !*****
: 0256 2 !+
: 0257 2 ! IF (Menutest Offline mode) THEN
: 0258 2 !   Set up VDS to execute LOAD EVSBA command
: 0259 2 !   Return length of string & success indicator
: 0260 2 !-
: 0261 2 !*****
: 0262 2
: 0263 3 IF (.DSA$V_CRD_Menutest_Off)      ! [03]
: 0264 2 THEN                             ! [03]
: 0265 3   BEGIN                          ! [03]
: 0266 3   CH$COPY (
: 0267 3   .CRD$GT_DS_LOAD_Com [0],      CH$PTR (CRD$GT_DS_LOAD_Com [1]),
: 0268 3   .CRD$GT_AutoSizer_Name [0], CH$PTR (CRD$GT_AutoSizer_Name [1]),
: 0269 3   'XC' ,
: 0270 3   .CLI_Buffer_Length, CH$PTR (.CLI_Buffer_Address)
: 0271 3   );
: 0272 3   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0273 3   $CRD_Return_Length_Status (CRD$K_Success);
: 0274 2   END;                          ! [03]
: 0275 2

```

```

0276 2 !*****
0277 2 !
0278 2 ! IF (MenuTest_Online mode) THEN
0279 2 !   Spawn a subprocess to run the ONLINE_AUTOSIZER, result will be a
0280 2 !   file that will be read by the Start Autosizer routine.
0281 2 !-
0282 2 !*****
0283 2
0284 3 IF (.DSA$V_CRD_Menutest_On)      ! [03]
0285 2 THEN      ! [03]
0286 3   BEGIN      ! [03]
0287 3
0288 3 !   Set up PIC string descriptors      ! [03]
0289 3   $LOAD_ASCII_S ( NAM=OUT, STR='NL:' );      ! [03]
0290 3   $LOAD_ASCII_S ( NAM=CMD, STR='$ RUN SYS$SYSTEM:EVSBB' );      ! [03]
0291 3
0292 3 !   Spawn a subprocess to execute the ONLINE AUTOSIZER      ! [03]
0293 3   IOSTatus = LIB$SPAWN ( CMD,0,OUT,0,0,0,Status,0,0,0);      ! [03]
0294 3   $Check_OA_status (IOStatus);      ! [03]
0295 3   $Check_OA_status (Status);      ! [03]
0296 2   END;      ! [03]
0297 2
0298 2 Return CRD$K_Success;      ! Always return success      ! [03]
0299 1 END;      ! Routine MM$Load_AutoSizer

```

```

.PSECT WORK,NOEXE,2

00000 CMD:      .BLKB      8
00008 OUT:      .BLKB      8
00010 IOSTATUS:
.BLKB      4
00014 STATUS: .BLKB      4

.PSECT DATA,NOWRT,NOEXE, SHR,2

00015 .BLKB      3
00 3A 4C 4E 00018 P.AAD: .ASCII \NL:\<0>
45 54 53 59 53 24 53 59 53 20 4E 55 52 20 24 0001C P.AAE: .ASCII \$ RUN SYS$SYSTEM:EVSBB\<0>\<0>
00 00 42 42 53 56 45 3A 4D 0002B
41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 00034 P.AAF: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 00043
53 55 54 41 54 53 4F 49 08 0004A P.AAG: .ASCII <8>\IOSTATUS\
41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 00053 P.AAH: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 00062
53 55 54 41 54 53 06 00069 P.AAI: .ASCII <6>\STATUS\

.EXTRN LIB$SPAWN, CRD$GT_DS_LOAD_COM
.EXTRN MEN$GT_AUTOSIZER_BEGIN
.EXTRN CRD$PRINT_DS_COMMAND

.PSECT CODE,NOWRT, SHR, PIC,2

03FC 00000 .ENTRY MM$LOAD_AUTOSIZER, Save R2,R3,R4,R5,R6,R7,- ; 0200

```

ZZ-ENSAB-2.0 MM\$Load_AutoSizer Routine L 13
CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame L13 Sequence 785
V01.4 MM\$Load_AutoSizer Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (9) Page 12

```

      R8,R9
00000000G EF 9F 00002 PUSHAB MEN$GT_AUTOSIZER_BEGIN ; 0253
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT ;
45 0000FE02 9F E9 00013 BLBC a#^X0000FE02, 2$ ; 0263
59 00000000G EF 9A 0001A MOVZBL CRD$GT_DS_LOAD_COM, R9 ; 0267
58 00000000' EF 9A 00021 MOVZBL CRD$GT_AUTOSIZER_NAME, R8 ; 0268
57 04 AC D0 00028 MOVL CLI_BUFFER_LENGTH, R7 ; 0270
56 08 AC D0 0002C MOVL CLI_BUFFER_ADDRESS, R6 ;
57 20 00000000G EF 59 2C 00030 MOVCS R9, CRD$GT_DS_LOAD_COM+1, #32, R7, (R6) ;
66 00039 ;
10 18 0003A BGEQ 1$ ;
56 59 C0 0003C ADDL2 R9, R6 ;
57 59 C2 0003F SUBL2 R9, R7 ;
57 20 00000000' EF 58 2C 00042 MOVCS R8, CRD$GT_AUTOSIZER_NAME+1, #32, R7, (R6) ;
66 0004B ;
7E 04 AC 7D 0004C 1$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0272
00000000G EF 02 FB 00050 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00057 MOVL #5242881, R0 ; 0273
04 0005E RET ;
03 0000FE02 9F 02 E0 0005F 2$: BBS #2, a#^X0000FE02, 3$ ; 0284
00D2 31 00067 BRW 7$ ;
00000000' EF 010E0003 8F D0 0006A 3$: MOVL #17694723, OUT ; 0289
00000000' EF 00000000' EF 9E 00075 MOVAB P.AAD, OUT+4 ;
00000000' EF 010E0016 8F D0 00080 MOVL #17694742, CMD ; 0290
00000000' EF 00000000' EF 9E 0008B MOVAB P.AAE, CMD+4 ;
7E 7C 00096 CLRQ -(SP) ; 0293
7E D4 00098 CLRL -(SP) ;
00000000' EF 9F 0009A PUSHAB STATUS ;
7E 7C 000A0 CLRQ -(SP) ;
7E D4 000A2 CLRL -(SP) ;
00000000' EF 9F 000A4 PUSHAB OUT ;
7E D4 000AA CLRL -(SP) ;
00000000' EF 9F 000AC PUSHAB CMD ;
00000000G EF 0A FB 000B2 CALLS #10, LIB$SPAWN ;
00000000' EF 50 D0 000B9 MOVL R0, IOSTATUS ;
1C 00000000' EF E8 000C0 BLBS IOSTATUS, 4$ ; 0294
40 0000FE02 9F 01 E1 000C7 BBC #1, a#^X0000FE02, 6$ ;
00000000' EF DD 000CF PUSHL IOSTATUS ;
00000000' EF 9F 000D5 PUSHAB P.AAG ;
00000000' EF 9F 000DB PUSHAB P.AAF ;
21 11 000E1 BRB 5$ ;
52 00000000' EF E8 000E3 4$: BLBS STATUS, 7$ ; 0295
1D 0000FE02 9F 01 E1 000EA BBC #1, a#^X0000FE02, 6$ ;
00000000' EF DD 000F2 PUSHL STATUS ;
00000000' EF 9F 000F8 PUSHAB P.AAI ;
00000000' EF 9F 000FE PUSHAB P.AAH ;
01 DD 00104 5$: PUSHL #1 ;
1A DD 00106 PUSHL #26 ;
00000000G FF 05 FB 00108 CALLS #5, aCRD$PRINT ;
00000000G EF 9F 0010F 6$: PUSHAB MEN$GT_FAILED_ONL_AUTOSIZER ;
01 DD 00115 PUSHL #1 ;
1A DD 00117 PUSHL #26 ;
00000000G FF 03 FB 00119 CALLS #3, aCRD$PRINT ;
```


ZZ-ENSAB-2.0 MM\$Load_AutoSizer Routine M 13
CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame M13 Sequence 786
V01.4 MM\$Load_AutoSizer Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (9) Page 13

```
00000000G EF 9F 00120 PUSHAB CRD$GT_AUTOSIZER_ERROR ;
      01 DD 00126 PUSHL #1 ;
      1A DD 00128 PUSHL #26 ;
00000000G FF 03 FB 0012A CALLS #3, aCRD$PRINT ;
      0E DD 00131 PUSHL #14 ;
00000000G EF 01 FB 00133 CALLS #1, CRD$STOP ;
      04 11 0013A BRB 8$ ;
      50 01 D0 0013C 7$: MOVL #1, R0 ; 0298
      04 0013F RET ;
      50 D4 00140 8$: CLRL R0 ; 0299
      04 00142 RET ;
```

; Routine Size: 323 bytes, Routine Base: CODE + 0017

ZZ-ENSAB-2.0 MM\$Set_Flags_AutoSizer Routine N 13
CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame N13
V01.4 MM\$Set_Flags_AutoSizer Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (10) Page 14

Sequence 787

```
; 0300 1 *SBTTL 'MM$Set_Flags_AutoSizer Routine'
; 0301 1
; 0302 1 GLOBAL ROUTINE MM$Set_Flags_AutoSizer (CLI_Buffer_Length, CLI_Buffer_Address) =
; 0303 1
; 0304 1 !++
; 0305 1 ! Functional Description:
; 0306 1 !
; 0307 1 ! Describe offline function of routine
; 0308 1 !
; 0309 1 ! Online mode causes the file created in MM$LOAD_AUTOSIZER to be opened
; 0310 1 ! for reading in the MM$START_AUTOSIZER routine.
; 0311 1 !
; 0312 1 ! Formal Input Parameters:
; 0313 1 !
; 0314 1 ! None
; 0315 1 !
; 0316 1 ! Formal Output Parameters:
; 0317 1 !
; 0318 1 ! None
; 0319 1 !
; 0320 1 ! Side Effects:
; 0321 1 !
; 0322 1 ! None
; 0323 1 !
; 0324 1 ! Completion Codes:
; 0325 1 !
; 0326 1 ! CRD$K_Failure
; 0327 1 ! CRD$K_Success
; 0328 1 ! CRD$K_Repeat_Turing
; 0329 1 ! (Byte_count*1000h) + CRD$K_Success
; 0330 1 ! --
```

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```

: 0331 2 BEGIN      ! Routine MM$Set_Flags_AutoSizer
: 0332 2
: 0333 2 | .....
: 0334 2 | *
: 0335 2 | These definitions are for the RMS file operations. The file was produced
: 0336 2 | by the ONLINE AUTOSIZER in the MM$LOAD_AUTOSIZER routine.
: 0337 2 | -
: 0338 2 | .....
: 0339 2
: 0340 2 GLOBAL
: 0341 2     CRD$GA_Rec_Buf  : BLOCK [ EVSBB$S_EVSBB$REC, BYTE ],! RMS record buffer
: P 0342 2     CRD$GA_File_FAB : $FAB ( RFM=VAR, ! Variable record length
: P 0343 2         RAT=CR, ! Carriage control
: 0344 2         FAC=GET ), ! Readonly access
: 0345 2     CRD$GA_File_RAB : $RAB ( USZ=EVSBB$S_EVSBB$REC ); ! Record size
: 0346 2
: 0347 2 | .....
: 0348 2 | *
: 0349 2 | Routine definitions
: 0350 2 | -
: 0351 2 | .....
: 0352 2
: 0353 2 LITERAL
: 0354 2     FAO_BUFF_Size = 80;
: 0355 2 OWN
: 0356 2     Status : LONG,
: 0357 2     FAO_BUFF : BLOCK [FAO_BUFF_Size, BYTE],
: 0358 2     FAO_Length : WORD,
: 0359 2     FAO_Input_Dsc : BLOCK [2, LONG],
: 0360 2     FAO_Output_Dsc : BLOCK [2, LONG];
: 0361 2
: 0362 2 MAP
: 0363 2     CRD$GT_AutoSizer_Set_Flags : VECTOR [, BYTE],
: 0364 2     CRD$GT_DS_SET_FLAGS_Com   : VECTOR [, BYTE];
: 0365 2
: 0366 2 | .....
: 0367 2 | *
: 0368 2 | Program start
: 0369 2 | IF (Menutest Offline mode) THEN
: 0370 2 | Set the command line to the CLI to SET FLAGS ...
: 0371 2 | -
: 0372 2 | .....
: 0373 2
: 0374 3 IF (.DSA$V_CRD_Menutest_Off)
: 0375 2 THEN
: 0376 3     BEGIN
: 0377 4         IF (.CRD$GT_AutoSizer_Set_Flags [0] EQL 0)
: 0378 3         THEN
: 0379 4             RETURN (CRD$K_Repeat_Turing)
: 0380 3         ELSE
: 0381 4             BEGIN
: 0382 4     CH$COPY (
: 0383 4         .CRD$GT_DS_SET_FLAGS_Com [0],
: 0384 4         CH$PTR (CRD$GT_DS_SET_FLAGS_Com [1]),
: 0385 4         .CRD$GT_AutoSizer_Set_Flags [0],
    
```

```
; 0386 4      CH$PTR (CRD$GT_AutoSizer_Set_Flags [1]),  
; 0387 4      %C',  
; 0388 4      .CLI_Buffer_Length,  
; 0389 4      CH$PTR (.CLI_Buffer_Address)  
; 0390 4      );  
; 0391 4      CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);  
; 0392 4      $CRD_Return_Length_Status (CRD$K_Success);  
; 0393 3      END;  
; 0394 2      END;
```

```

; 0395 2 ! *****
; 0396 2 ! *
; 0397 2 ! IF (Menutest Online mode) THEN
; 0398 2 !   OPEN the Online Autoszier file for read operations to be used by
; 0399 2 !   MM$START_AUTOSIZER routine.
; 0400 2 ! -
; 0401 2 ! *****
; 0402 2
; 0403 3 IF (.DSA$V_CRD_Menutest_On)
; 0404 2 THEN
; 0405 3   BEGIN ! [03]
; 0406 3   CRD$GA_File_FAB [ FAB$L_FNA ] = UPLIT ( xASCIC 'EVSBB.DAT'); ! [03]
; 0407 3   CRD$GA_File_FAB [ FAB$B_FNS ] = ..CRD$GA_File_FAB[FAB$L_FNA]; ! [03]
; 0408 3   CRD$GA_File_FAB [ FAB$L_FNA ] = .CRD$GA_File_FAB[FAB$L_FNA]+1; ! [03]
; 0409 3
; 0410 3   CRD$GA_File_RAB [ RAB$L_FAB ] = CRD$GA_File_FAB; ! [03]
; 0411 3   CRD$GA_File_RAB [ RAB$L_UBF ] = CRD$GA_Rec_Buf; ! [03]
; 0412 3
; 0413 3   Status = $OPEN (FAB=CRD$GA_File_FAB ); ! [03]
; 0414 3   $Check_OA_status (Status); ! [03]
; 0415 3
; 0416 3   Status = $CONNECT (RAB=CRD$GA_File_RAB); ! [03]
; 0417 3   $Check_OA_status (Status); ! [03]
; 0418 3
; 0419 3 ! Attach the correct CPU as the autosizer can't do this
; 0420 3 ! Attach with default commands, as we don't have the real data
; 0421 3
; 0422 3   SELECTONE .DSA$GL_SID<24,8,0> OF
; 0423 3   SET
; 0424 3   [ PR$ _SID_TYP8SS ] : ! KA820
; P 0425 3   $LOAD_ASCID_S
; P 0426 3   (
; P 0427 3   NAM=FAO_Input_Dsc,
; P 0428 3   STR='ATTACH KA820 HUB KAO YES YES 1FFF 1 0'
; 0429 3   );
; 0430 3   [ PR$ _SID_TYP790 ] : ! KA790
; P 0431 3   $LOAD_ASCID_S
; P 0432 3   (
; P 0433 3   NAM=FAO_Input_Dsc,
; P 0434 3   STR='ATTACH KA86 HUB KAO YES YES 1FFF 1'
; 0435 3   );
; 0436 3   [ PR$ _SID_TYP780 ] : ! KA780
; P 0437 3   $LOAD_ASCID_S
; P 0438 3   (
; P 0439 3   NAM=FAO_Input_Dsc,
; P 0440 3   STR='ATTACH KA780 HUB KAO YES YES 1FFF 1'
; 0441 3   );
; 0442 3   [ PR$ _SID_TYP750 ] : ! KA750
; P 0443 3   $LOAD_ASCID_S
; P 0444 3   (
; P 0445 3   NAM=FAO_Input_Dsc,
; P 0446 3   STR='ATTACH KA750 HUB KAO YES YES YES 1FFF 1'
; 0447 3   );
; 0448 3   [ PR$ _SID_TYP730 ] : ! KA730
; P 0449 3   $LOAD_ASCID_S

```

```

; P 0450 3 (
; P 0451 3   NAM=FAO_Input_Dsc,
; P 0452 3   STR='ATTACH KA730 HUB KAO YES 0 1 0 YES NO'
; 0453 3   );
; 0454 3 [ OTHERWISE ] : !Don't attach anything
; 0455 3 RETURN CRD$K_Success
; 0456 3 TES;
; 0457 3
; 0458 3 ! Set up the output descriptor dynamically, as code must be PIC.
; 0459 3
; 0460 3 $LOAD_ASCID_A (NAM=FAO_Output_Dsc, SIZ=FAO_Buff_Size, ADR=FAO_Buff);
; 0461 3
; 0462 3 ! Process the string
; 0463 3
; 0464 3 Status = $FAO ( FAO_Input_Dsc, FAO_Length, FAO_Output_Dsc );
; 0465 3 IF (NOT .Status) THEN RETURN CRD$K_Success;
; 0466 3
; 0467 3 ! Move the string to the CLI buffer
; 0468 3
; 0469 3 CH$COPY ( .FAO_Length, CH$PTR(FAO_BUFF), xC' ',
; 0470 3 .CLI_Buffer_Length, CH$PTR(.CLI_Buffer_Address) );
; 0471 3 CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
; 0472 3 $CRD_Return_Length_Status (CRD$K_Success);
; 0473 2 END;
; 0474 2 RETURN CRD$K_Success;
; 0475 1 END; ! Routine MM$Set_Flags_AutoSizer

```

```

.PSECT WORK,NOEXE,2

00018 CRD$GA_REC_BUF::
.BKLB 115
0008B .BKLB 1
03 0008C CRD$GA_FILE_FAB::
.BYTE 3 ;
50 0008D .BYTE 80 ;
0000 0008E .WORD 0 ;
00000000 00090 .LONG 0 ;
00000000 00094 .LONG 0 ;
00000000 00098 .LONG 0 ;
00000000 0009C .LONG 0 ;
0000 000A0 .WORD 0 ;
02 000A2 .BYTE 2 ;
00 000A3 .BYTE 0 ;
00000000 000A4 .LONG 0 ;
00 000A8 .BYTE 0 ;
00 000A9 .BYTE 0 ;
02 000AA .BYTE 2 ;
02 000AB .BYTE 2 ;
00000000 000AC .LONG 0 ;
00000000 000B0 .LONG 0 ;
00000000 000B4 .LONG 0 ;
00000000 000B8 .LONG 0 ;
00000000 000BC .LONG 0 ;

```

```

00 000C0 .BYTE 0 ;
00 000C1 .BYTE 0 ;
00000000 000C2 .WORD 0 ;
00000000 000C4 .LONG 0 ;
00000000 000C8 .WORD 0 ;
00 000CA .BYTE 0 ;
00 000CB .BYTE 0 ;
00000000 000CC .LONG 0 ;
00000000 000D0 .LONG 0 ;
00000000 000D4 .WORD 0 ;
00 000D6 .BYTE 0 ;
00 000D7 .BYTE 0 ;
00000000 000D8 .LONG 0 ;
01 000DC CRD$GA_FILE_RAB::
.BYTE 1 ;
44 000DD .BYTE 68 ;
00000000 000DE .WORD 0 ;
00000000 000E0 .LONG 0 ;
00000000 000E4 .LONG 0 ;
00000000 000E8 .LONG 0 ;
00000000 000EC .WORD 0[3] ;
00000000 000F2 .WORD 0 ;
00000000 000F4 .LONG 0 ;
00000000 000F8 .WORD 0 ;
00 000FA .BYTE 0 ;
00 000FB .BYTE 0 ;
0073 000FC .WORD 115 ;
00000000 000FE .WORD 0 ;
00000000 00100 .LONG 0 ;
00000000 00104 .LONG 0 ;
00000000 00108 .LONG 0 ;
00000000 0010C .LONG 0 ;
00 00110 .BYTE 0 ;
00 00111 .BYTE 0 ;
00 00112 .BYTE 0 ;
00 00113 .BYTE 0 ;
00000000 00114 .LONG 0 ;
00000000 00118 .LONG 0 ;
00000000 0011C .LONG 0 ;
00120 STATUS: .BLKB 4
00124 FAO_BUFF:
.BLKB 80
00174 FAO_LENGTH:
.BLKB 2
00176 .BLKB 2
00178 FAO_INPUT_DSC:
.BLKB 8
00180 FAO_OUTPUT_DSC:
.BLKB 8

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

00 00 54 41 44 2E 42 42 53 56 45 09 00070 P.AAJ: .ASCII <9>\EVSBB.DAT\<0><0> ;
41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 0007C P.AAK: .ASCII <21>\*** ERROR - !AC = !XL\ ;
4C 58 21 20 3D 20 43 0008B ;

```

```

41 53 55 54 41 54 53 06 00092 P.AAL: .ASCII <6>\STATUS\
21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 00099 P.AAM: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 000A8
53 55 54 41 54 53 06 000AF P.AAN: .ASCII <6>\STATUS\
000B6 .BLKB 2
55 48 20 30 32 38 41 4B 20 48 43 41 54 54 41 000B8 P.AAO: .ASCII \ATTACH KA820 HUB KAO YES YES 1FFF 1 0\<0> ;
31 20 53 45 59 20 53 45 59 20 30 41 4B 20 42 000C7
00 30 20 31 20 46 46 46 000D6
00 00 000DE .ASCII <0><0>
42 55 48 20 36 38 41 4B 20 48 43 41 54 54 41 000E0 P.AAP: .ASCII \ATTACH KA86 HUB KAO YES YES 1FFF 1\<0> ;
46 31 20 53 45 59 20 53 45 59 20 30 41 4B 20 000EF
00 31 20 46 46 000FE
00 00103 .ASCII <0>
55 48 20 30 38 37 41 4B 20 48 43 41 54 54 41 00104 P.AAQ: .ASCII \ATTACH KA780 HUB KAO YES YES 1FFF 1\<0> ;
31 20 53 45 59 20 53 45 59 20 30 41 4B 20 42 00113
00 31 20 46 46 00122
55 48 20 30 35 37 41 4B 20 48 43 41 54 54 41 00128 P.AAR: .ASCII \ATTACH KA750 HUB KAO YES YES YES 1FFF 1- ;
59 20 53 45 59 20 53 45 59 20 30 41 4B 20 42 00137 \<0>
00 31 20 46 46 46 31 20 53 45 00146
55 48 20 30 33 37 41 4B 20 48 43 41 54 54 41 00150 P.AAS: .ASCII \ATTACH KA730 HUB KAO YES 0 1 0 YES NO\<0> ;
30 20 31 20 30 20 53 45 59 20 30 41 4B 20 42 0015F
00 4F 4E 20 53 45 59 20 0016E
00 00 00176 .ASCII <0><0>

```

```

.EXTRN CRD$GT_DS_SET_FLAGS_COM
.EXTRN SYS$OPEN, SYS$CONNECT
.EXTRN SYS$FAO

```

```
.PSECT CODE, NOWRT, SHR, PIC, 2
```

```

03FC 00000 .ENTRY MM$SET_FLAGS_AUTOSIZER, Save R2,R3,R4,R5,- ; 0302
R6,R7,R8,R9
3E 0000FE02 9F E9 00002 BLBC @#^X0000FE02, 3$ ; 0374
59 00000000 EF 9A 00009 MOVZBL CRD$GT_AUTOSIZER_SET_FLAGS, R9 ; 0377
04 12 00010 BNEQ 1$
50 02 D0 00012 MOVL #2, R0 ; 0381
04 00015 RET
58 00000000G EF 9A 00016 1$: MOVZBL CRD$GT_DS_SET_FLAGS_COM, R8 ; 0383
57 04 AC D0 0001D MOVL CLI_BUFFER_LENGTH, R7 ; 0388
56 08 AC D0 00021 MOVL CLI_BUFFER_ADDRESS, R6 ; 0389
57 20 00000000G EF 58 2C 00025 MOVCS R8, CRD$GT_DS_SET_FLAGS_COM+1, #32, R7, - ;
66 0002E (R6)
03 19 0002F BLSS 2$
01D8 31 00031 BRW 14$
56 58 C0 00034 2$: ADDL2 R8, R6
57 58 C2 00037 SUBL2 R8, R7
57 20 00000000' EF 59 2C 0003A MOVCS R9, CRD$GT_AUTOSIZER_SET_FLAGS+1, #32, R7, -;
66 00043 (R6)
01C5 31 00044 BRW 14$ ; 0391
03 0000FE02 9F 02 E0 00047 3$: BBS #2, @#^X0000FE02, 4$ ; 0403
01CD 31 0004F BRW 15$
00000000' EF 00000000' EF 9E 00052 4$: MOVAB P.AAJ, CRD$GA_FILE_FAB+44 ; 0406
00000000' EF 00000000' FF 90 0005D MOVAB @CRD$GA_FILE_FAB+44, CRD$GA_FILE_FAB+52 ; 0407
00000000' EF D6 00068 INCL CRD$GA_FILE_FAB+44 ; 0408
00000000' EF 00000000' EF 9E 0006E MOVAB CRD$GA_FILE_FAB, CRD$GA_FILE_RAB+60 ; 0410

```



```
00000000' EF 00000000' EF 9E 00079 MOVAB CRD$GA_REC_BUF, CRD$GA_FILE_RAB+36 ; 0411
00000000' EF 9F 00084 PUSHAB CRD$GA_FILE_FAB ; 0413
00000000G 00 01 FB 0008A CALLS #1, SYS$OPEN ;
00000000' EF 50 D0 00091 MOVL R0, STATUS ;
1C 00000000' EF E8 00098 BLBS STATUS, 5$ ; 0414
54 0000FE02 9F 01 E1 0009F BBC #1, a#^X0000FE02, 7$ ;
00000000' EF DD 000A7 PUSHL STATUS ;
00000000' EF 9F 000AD PUSHAB P.AAL ;
00000000' EF 9F 000B3 PUSHAB P.AAK ;
35 11 000B9 BRB 6$ ;
00000000' EF 9F 000BB 5$: PUSHAB CRD$GA_FILE_RAB ; 0416
00000000G 00 01 FB 000C1 CALLS #1, SYS$CONNECT ;
00000000' EF 50 D0 000C8 MOVL R0, STATUS ;
53 00000000' EF E8 000CF BLBS STATUS, 8$ ; 0417
1D 0000FE02 9F 01 E1 000D6 BBC #1, a#^X0000FE02, 7$ ;
00000000' EF DD 000DE PUSHL STATUS ;
00000000' EF 9F 000E4 PUSHAB P.AAN ;
00000000' EF 9F 000EA PUSHAB P.AAM ;
01 DD 000F0 6$: PUSHL #1 ;
1A DD 000F2 PUSHL #26 ;
00000000G FF 05 FB 000F4 CALLS #5, aCRD$PRINT ;
00000000G EF 9F 000FB 7$: PUSHAB MEN$GT_FAILED_ONL_AUTOSIZER ;
01 DD 00101 PUSHL #1 ;
1A DD 00103 PUSHL #26 ;
00000000G FF 03 FB 00105 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 0010C PUSHAB CRD$GT_AUTOSIZER_ERROR ;
01 DD 00112 PUSHL #1 ;
1A DD 00114 PUSHL #26 ;
00000000G FF 03 FB 00116 CALLS #3, aCRD$PRINT ;
0E DD 0011D PUSHL #14 ;
00000000G EF 01 FB 0011F CALLS #1, CRD$STOP ;
00FA 31 00126 BRW 16$ ;
50 0000FE17 9F 9A 00129 8$: MOVZBL a#^X0000FE17, R0 ; 0422
05 50 91 00130 CMPB R0, #5 ; 0424
18 12 00133 BNEQ 9$ ;
00000000' EF 010E0025 8F D0 00135 MOVL #17694757, FAO_INPUT_DSC ; 0429
00000000' EF 00000000' EF 9E 00140 MOVAB P.AAO, FAO_INPUT_DSC+4 ;
72 11 0014B BRB 13$ ; 0422
04 50 91 0014D 9$: CMPB R0, #4 ; 0430
18 12 00150 BNEQ 10$ ;
00000000' EF 010E0022 8F D0 00152 MOVL #17694754, FAO_INPUT_DSC ; 0435
00000000' EF 00000000' EF 9E 0015D MOVAB P.AAP, FAO_INPUT_DSC+4 ;
55 11 00168 BRB 13$ ; 0422
01 50 91 0016A 10$: CMPB R0, #1 ; 0436
18 12 0016D BNEQ 11$ ;
00000000' EF 010E0023 8F D0 0016F MOVL #17694755, FAO_INPUT_DSC ; 0441
00000000' EF 00000000' EF 9E 0017A MOVAB P.AAQ, FAO_INPUT_DSC+4 ;
38 11 00185 BRB 13$ ; 0422
02 50 91 00187 11$: CMPB R0, #2 ; 0442
18 12 0018A BNEQ 12$ ;
00000000' EF 010E0027 8F D0 0018C MOVL #17694759, FAO_INPUT_DSC ; 0447
00000000' EF 00000000' EF 9E 00197 MOVAB P.AAR, FAO_INPUT_DSC+4 ;
1B 11 001A2 BRB 13$ ; 0422
03 50 91 001A4 12$: CMPB R0, #3 ; 0448
76 12 001A7 BNEQ 15$ ;
```

```

00000000' EF 010E0025 8F D0 001A9 MOVL #17694757, FAO_INPUT_DSC ; 0453
00000000' EF 00000000' EF 9E 001B4 MOVAB P.AAS, FAO_INPUT_DSC+4 ;
00000000' EF 010E0050 8F D0 001BF 13$: MOVL #17694800, FAO_OUTPUT_DSC ; 0460
00000000' EF 00000000' EF 9E 001CA MOVAB FAO_BUFF, FAO_OUTPUT_DSC+4 ;
00000000' EF 9F 001D5 PUSHAB FAO_OUTPUT_DSC ; 0464
00000000' EF 9F 001DB PUSHAB FAO_LENGTH ;
00000000' EF 9F 001E1 PUSHAB FAO_INPUT_DSC ;
00000000G 00 03 FB 001E7 CALLS #3, SYS$FAO ;
00000000' EF 50 D0 001EE MOVL R0, STATUS ;
23 00000000' EF E9 001F5 BLBC STATUS, 15$ ; 0465
04 AC 20 00000000' EF 00000000' EF 2C 001FC MOVCS FAO_LENGTH, FAO_BUFF, #32, - ; 0470
08 BC 0020A CLI_BUFFER_LENGTH, @CLI_BUFFER_ADDRESS ;
7E 04 AC 7D 0020C 14$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0471
00000000G EF 02 FB 00210 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00217 MOVL #5242881, R0 ; 0472
04 0021E RET ;
50 01 D0 0021F 15$: MOVL #1, R0 ; 0474
04 00222 RET ;
50 D4 00223 16$: CLRL R0 ; 0475
04 00225 RET ;

```

; Routine Size: 550 bytes, Routine Base: CODE + 015A

```

: 0476 1
: 0477 1
: 0478 1 xSBTTL 'MM$Start_AutoSizer Routine'
: 0479 1
: 0480 1 GLOBAL ROUTINE MM$Start_AutoSizer (CLI_Buffer_Length, CLI_Buffer_Address) =
: 0481 1
: 0482 1 !*
: 0483 1 ! Functional Description:
: 0484 1 !
: 0485 1 ! Describe function of routine
: 0486 1 !
: 0487 1 ! Formal Input Parameters:
: 0488 1 !
: 0489 1 ! None
: 0490 1 !
: 0491 1 ! Formal Output Parameters:
: 0492 1 !
: 0493 1 ! None
: 0494 1 !
: 0495 1 ! Side Effects:
: 0496 1 !
: 0497 1 ! None
: 0498 1 !
: 0499 1 ! Completion Codes:
: 0500 1 !
: 0501 1 ! CRD$K_Success
: 0502 1 ! CRD$K_Failure
: 0503 1 ! (Byte_count*1000h) + CRD$K_Success
: 0504 1 ! --

```

ZZ-ENSAB-2.0 MM\$Start_AutoSizer Routine

CRDHMACT *** CRDHMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Page 24

V01.4 MM\$Start_AutoSizer Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDHMACT.B32;1 (14)

```

: 0505 2 BEGIN      ! Routine MM$Start_AutoSizer
: 0506 2
: 0507 2 !*****
: 0508 2 !+
: 0509 2 ! Definitions
: 0510 2 !-
: 0511 2 !*****
: 0512 2
: 0513 2 EXTERNAL CRD$GA_Rec_Buf  : ADDRESSING_MODE (LONG_RELATIVE);
: 0514 2 EXTERNAL CRD$GA_File_FAB : ADDRESSING_MODE (LONG_RELATIVE);
: 0515 2 EXTERNAL CRD$GA_File_RAB : ADDRESSING_MODE (LONG_RELATIVE);
: 0516 2
: 0517 2 MAP  CRD$GA_Rec_Buf  : BLOCK [,BYTE];
: 0518 2 MAP  CRD$GA_File_FAB : BLOCK [,BYTE];
: 0519 2 MAP  CRD$GA_File_RAB : BLOCK [,BYTE];
: 0520 2
: 0521 2 LITERAL
: 0522 2     Output_size = 80;
: 0523 2 OWN
: 0524 2     CNTRL : BLOCK [2, LONG],
: 0525 2     Output_desc : BLOCK [2, LONG] INITIAL (x'010E0000'+Output_Size, 0), ! [03]
: 0526 2     Output_Len : WORD,
: 0527 2     Status, Type : LONG,
: 0528 2     Output_Buff : VECTOR [Output_size, BYTE];
: 0529 2
: 0530 2 MAP
: 0531 2     CRD$GT_DS_START_Com : VECTOR [, BYTE];
: 0532 2
: 0533 2 !*****
: 0534 2 !+
: 0535 2 ! Program start
: 0536 2 ! IF (Menutest Offline mode) THEN
: 0537 2 !     Load the VDS command buffer with SET FLAGS ... command.
: 0538 2 !-
: 0539 2 !*****
: 0540 2
: 0541 3 IF (.DSA$V_CRD_Menutest_Off)
: 0542 2 THEN
: 0543 3     BEGIN
: 0544 3     CH$COPY (
: 0545 3     .CRD$GT_DS_START_Com [0],  CH$PTR (CRD$GT_DS_START_Com [1]),
: 0546 3     xC',
: 0547 3     .CLI_Buffer_Length,  CH$PTR (.CLI_Buffer_Address)
: 0548 3     );
: 0549 3     CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
: 0550 3     $CRD Return_Length_Status (CRD$K_Success);
: 0551 2     END;

```

ZZ-ENSAB-2.0 MM\$Start_AutoSizer Routine

CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Page 25

V01.4 MM\$Start_AutoSizer Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (15)

```

0552 2 !*****
0553 2 !+
0554 2 ! IF (Menutest Online mode) THEN
0555 2 !   Read records from the AUTOSIZER file and create command line to
0556 2 !   be feed to VDS as ATTACH commands
0557 2 !-
0558 2 !*****
0559 2
0560 3 IF (.DSA$V_CRD_Menutest_On)
0561 2 THEN
0562 3   BEGIN
0563 3   !   Read a record from the file opened in MM$Set_Flags_Autosizer
0564 3   !   Status = $GET(RAB=CRD$GA_File_RAB);
0565 3   !   SELECTONE .Status OF
0566 3   SET
0567 3   [ RMS$_EOF ] : ;
0568 3   !   .   End of file condition, cleanup files by doing nothing
0569 3
0570 3   [ RMS$ NORMAL ] :
0571 4   BEGIN
0572 4   !   .   Get corresponding attach string
0573 4   !   Status = MEN$GENERATE_ONLINE_ATTACH
0574 4   !   ( .CLI_Buffer_Length, .CLI_Buffer_Address );
0575 4
0576 4   !   .   Fake out the MM state machine by backing up state till done
0577 4   !   .   reading the EVSBB.DAT file.
0578 4   !   CRD$GL_MM_Current_State = .CRD$GL_Previous_State;
0579 4
0580 4   !   IF (NO attach string) THEN just return all is well
0581 4   !   IF (.Status NEQ 0) THEN
0582 5   BEGIN
0583 5   CRD$Print_DS_Command (.CLI_Buffer_Length, .CLI_Buffer_Address);
0584 5   $CRD_Return_Length_Status (CRD$K_Success);
0585 5   END
0586 4   ELSE
0587 4   RETURN CRD$K_Success;
0588 3   END;
0589 3
0590 3   [ OTHERWISE ] :
0591 3   !   .   RMS file error
0592 3   !   $Check_OA_status (Status);      ! [03]
0593 3   TES;
0594 3
0595 3   !   Close to file then delete it. This conserves disk space.
0596 3
0597 3   Status = $CLOSE (FAB=CRD$GA_File_FAB);
0598 3   $Check_OA_Status (Status);
0599 3   $ERASE (FAB=CRD$GA_File_FAB);
0600 3   $Check_OA_Status (Status);
0601 3   RETURN CRD$K_Success; ! All has gone well
0602 2   END;
0603 2
0604 2 RETURN CRD$K_Failure ! Should never get here
0605 1 END; ! Routine MM$Start_AutoSizer

```

.PSECT WORK,NOEXE,2

```

00188 CNTRL: .BLKB 8
00000000 010E0050 00190 OUTPUT_DESC:
.LONG 17694800, 0
00198 OUTPUT_LEN:
.BLKB 2
0019A .BLKB 2
0019C STATUS: .BLKB 4
001A0 TYPE: .BLKB 4
001A4 OUTPUT_BUFF:
.BLKB 80
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 00178 P.AAT: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 00187
53 55 54 41 54 53 06 0018E P.AAU: .ASCII <6>\STATUS\
41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 00195 P.AAV: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 001A4
53 55 54 41 54 53 06 001AB P.AAW: .ASCII <6>\STATUS\
41 21 20 2D 20 52 4F 52 52 45 20 2A 2A 2A 15 001B2 P.AAX: .ASCII <21>\*** ERROR - !AC = !XL\
4C 58 21 20 3D 20 43 001C1
53 55 54 41 54 53 06 001CB P.AAY: .ASCII <6>\STATUS\
  
```

```

.EXTRN CRD$GT_DS_START_COM
.EXTRN SYS$GET, CRD$GL_MM_CURRENT_STATE
.EXTRN CRD$GL_PREVIOUS_STATE
.EXTRN SYS$CLOSE, SYS$ERASE
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

003C 00000 .ENTRY MM$START_AUTOSIZER, Save R2,R3,R4,R5 ; 0480
15 0000FE02 9F E9 00002 BLBC a#^X0000FE02, 1$ ; 0541
50 00000000G EF 9A 00009 MOVZBL CRD$GT_DS_START_COM, R0 ; 0545
04 AC 20 00000000G EF 50 2C 00010 MOVCS R0, CRD$GT_DS_START_COM+1, #32, - ; 0547
08 BC 0001A CLI_BUFFER_LENGTH, aCLI_BUFFER_ADDRESS
60 11 0001C BRB 3$ ; 0549
03 0000FE02 9F 02 E0 0001E 1$: BBS #2, a#^X0000FE02, 2$ ; 0560
0127 31 00026 BRW 11$
00000000G EF 9F 00029 2$: PUSHAB CRD$GA_FILE_RAB ; 0564
00000000G 00 01 FB 0002F CALLS #1, SYS$GET ;
00000000' EF 50 D0 00036 MOVL R0, STATUS ;
52 00000000' EF D0 0003D MOVL STATUS, R2 ; 0565
0001827A 8F 52 D1 00044 CMPL R2, #98938 ; 0567
62 13 0004B BEQL 6$
00010001 8F 52 D1 0004D CMPL R2, #65537 ; 0570
3B 12 00054 BNEQ 4$
7E 04 AC 7D 00056 MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0574
00000000G EF 02 FB 0005A CALLS #2, MEN$GENERATE_ONLINE_ATTACH ;
00000000' EF 50 D0 00061 MOVL R0, STATUS ;
00000000G EF 00000000G EF D0 00068 MOVL CRD$GL_PREVIOUS_STATE, - ; 0578
CRD$GL_MM_CURRENT_STATE ;
  
```

```

00000000' EF D5 00073 TSTL STATUS ; 0581
03 12 00079 BNEQ 3$ ;
00CE 31 0007B BRW 10$ ;
7E 04 AC 7D 0007E 3$: MOVQ CLI_BUFFER_LENGTH, -(SP) ; 0583
00000000G EF 02 FB 00082 CALLS #2, CRD$PRINT_DS_COMMAND ;
50 00500001 8F D0 00089 MOVL #5242881, R0 ; 0587
04 00090 RET ;
1B 52 E8 00091 4$: BLBS R2, 6$ ; 0592
03 0000FE02 9F 01 E0 00094 BBS #1, a#^X0000FE02, 5$ ;
0080 31 0009C BRW 9$ ;
52 DD 0009F 5$: PUSHL R2 ;
00000000' EF 9F 000A1 PUSHAB P.AAU ;
00000000' EF 9F 000A7 PUSHAB P.AAT ;
65 11 000AD BRB 8$ ;
00000000G EF 9F 000AF 6$: PUSHAB CRD$GA_FILE_FAB ; 0597
00000000G 00 01 FB 000B5 CALLS #1, SYS$CLOSE ;
00000000' EF 50 D0 000BC MOVL R0, STATUS ;
1C 00000000' EF E8 000C3 BLBS STATUS, 7$ ; 0598
4D 0000FE02 9F 01 E1 000CA BBC #1, a#^X0000FE02, 9$ ;
00000000' EF DD 000D2 PUSHL STATUS ;
00000000' EF 9F 000D8 PUSHAB P.AAW ;
00000000' EF 9F 000DE PUSHAB P.AAV ;
2E 11 000E4 BRB 8$ ;
00000000G EF 9F 000E6 7$: PUSHAB CRD$GA_FILE_FAB ; 0599
00000000G 00 01 FB 000EC CALLS #1, SYS$ERASE ;
52 00000000' EF E8 000F3 BLBS STATUS, 10$ ; 0600
1D 0000FE02 9F 01 E1 000FA BBC #1, a#^X0000FE02, 9$ ;
00000000' EF DD 00102 PUSHL STATUS ;
00000000' EF 9F 00108 PUSHAB P.AAY ;
00000000' EF 9F 0010E PUSHAB P.AAX ;
01 DD 00114 8$: PUSHL #1 ;
1A DD 00116 PUSHL #26 ;
00000000G FF 05 FB 00118 CALLS #5, aCRD$PRINT ;
00000000G EF 9F 0011F 9$: PUSHAB MEN$GT_FAILED_ONL_AUTOSIZER ;
01 DD 00125 PUSHL #1 ;
1A DD 00127 PUSHL #26 ;
00000000G FF 03 FB 00129 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 00130 PUSHAB CRD$GT_AUTOSIZER_ERROR ;
01 DD 00136 PUSHL #1 ;
1A DD 00138 PUSHL #26 ;
00000000G FF 03 FB 0013A CALLS #3, aCRD$PRINT ;
0E DD 00141 PUSHL #14 ;
00000000G EF 01 FB 00143 CALLS #1, CRD$STOP ;
04 11 0014A BRB 11$ ;
50 01 D0 0014C 10$: MOVL #1, R0 ; 0601
04 0014F RET ;
50 D4 00150 11$: CLRL R0 ; 0605
04 00152 RET ;

```

```
; Routine Size: 339 bytes,    Routine Base: CODE + 0380
```

```
: 0606 1 xSBTTL 'MM$Build_DDBs Routine'
: 0607 1
: 0608 1 GLOBAL ROUTINE MM$Build_DDBs =
: 0609 1
: 0610 1 !*
: 0611 1 ! Functional Description:
: 0612 1 !
: 0613 1 ! Describe function of routine
: 0614 1 !
: 0615 1 ! Formal Input Parameters:
: 0616 1 !
: 0617 1 ! None
: 0618 1 !
: 0619 1 ! Formal Output Parameters:
: 0620 1 !
: 0621 1 ! None
: 0622 1 !
: 0623 1 ! Side Effects:
: 0624 1 !
: 0625 1 ! None
: 0626 1 !
: 0627 1 ! Completion Codes:
: 0628 1 !
: 0629 1 ! None
: 0630 1 ! --
```



```

; 0631 2 BEGIN      ! Routine MM$Build_DDBs
; 0632 2 $CRD_Print (MEN$GT_AutoSizer_End);
; 0633 2      ! Tell the operator is AutoSizer is done.
; 0634 2
; 0635 2 CRD$Screen_Pause (SCREEN$K_Press_Return);      ! [02]
; 0636 2      ! Tell the soft console operator to
; 0637 2      ! Press Return for More...
; 0638 2      ! Before continuing with Menu mode.
; 0639 2
; 0640 2 MEN$Build_DDB ();
; 0641 2      ! Build the Device Data Blocks
; 0642 2
; 0643 3 RETURN (CRD$K_Repeat_Turing)
; 0644 1 END;      ! Routine MM$Build_DDBs
  
```

```

.EXTRN MEN$GT_AUTOSIZER_END
.EXTRN CRD$SCREEN_PAUSE
.EXTRN MEN$BUILD_DDB
  
```

```

      0000 00000 .ENTRY MM$BUILD_DDBS, Save nothing      ; 0608
00000000G EF 9F 00002 PUSHAB MEN$GT_AUTOSIZER_END      ; 0632
      01 DD 00008 PUSHL #1
      1A DD 0000A PUSHL #26
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT
      7E D4 00013 CLRL -(SP)
00000000G EF 01 FB 00015 CALLS #1, CRD$SCREEN_PAUSE
00000000G EF 00 FB 0001C CALLS #0, MEN$BUILD_DDB      ; 0640
      50 02 D0 00023 MOVL #2, R0
      04 00026 RET      ; 0644
  
```

; Routine Size: 39 bytes, Routine Base: CODE + 04D3

```

: 0645 1 xSBTTL 'MM$Build_HSTs Routine'
: 0646 1
: 0647 1 GLOBAL ROUTINE MM$Build_HSTs =
: 0648 1
: 0649 1 !**
: 0650 1 ! Functional Description:
: 0651 1 !
: 0652 1 ! Describe function of routine
: 0653 1 !
: 0654 1 ! Formal Input Parameters:
: 0655 1 !
: 0656 1 ! None
: 0657 1 !
: 0658 1 ! Formal Output Parameters:
: 0659 1 !
: 0660 1 ! None
: 0661 1 !
: 0662 1 ! Side Effects:
: 0663 1 !
: 0664 1 ! None
: 0665 1 !
: 0666 1 ! Completion Codes:
: 0667 1 !
: 0668 1 ! None
: 0669 1 ! -

```

ZZ-ENSAB-2.0 MM\$Build_HSTs Routine E 15
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame E15 Sequence 804
 V01.4 MM\$Build_HSTs Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 Page 31 (19)

```

; 0670 2 BEGIN      ! Routine MM$Build_HSTs
; 0671 2  MEN$Determine_Support ();
; 0672 2  MEN$Specify_SelectNo ();
; 0673 3  RETURN (CRD$K_Repeat_Turing)
; 0674 1 END;      ! Routine MM$Build_HSTs

```

```

.EXTRN  MEN$DETERMINE_SUPPORT
.EXTRN  MEN$SPECIFY_SELECTNO

```

```

      0000 00000 .ENTRY  MM$BUILD_HSTS, Save nothing      ; 0647
00000000G EF      00 FB 00002  CALLS  #0, MEN$DETERMINE_SUPPORT      ; 0671
00000000G EF      00 FB 00009  CALLS  #0, MEN$SPECIFY_SELECTNO      ; 0672
      50      02 DO 00010  MOVL  #2, R0      ; 0673
04 00013  RET      ; 0674

```

; Routine Size: 20 bytes, Routine Base: CODE + 04FA

ZZ-ENSAB-2.0	MM\$Done_Inits Routine	F 15		
CRDMMACT ***	CRDMMACT Module	19-Sep-1985	Fiche 4	Frame F15
V01.4	MM\$Done_Inits Routine	30-May-1985	Page 32	Sequence 805
		16:56:02 VAX-11 Bliss-32 V4.1-746		
		12:44:16 [DS.CRD.V020]CRDMMACT.B32;1	(20)	

```

; 0675 1 xSBTTL 'MM$Done_Inits Routine'
; 0676 1
; 0677 1 GLOBAL ROUTINE MM$Done_Inits =
; 0678 1
; 0679 1 !**
; 0680 1 ! Functional Description:
; 0681 1 !
; 0682 1 ! Describe function of routine
; 0683 1 !
; 0684 1 ! Formal Input Parameters:
; 0685 1 !
; 0686 1 ! None
; 0687 1 !
; 0688 1 ! Formal Output Parameters:
; 0689 1 !
; 0690 1 ! None
; 0691 1 !
; 0692 1 ! Side Effects:
; 0693 1 !
; 0694 1 ! None
; 0695 1 !
; 0696 1 ! Completion Codes:
; 0697 1 !
; 0698 1 ! None
; 0699 1 ! --

```

ZZ-ENSAB-2.0 MM\$Done_Inits Routine
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746
 V01.4 MM\$Done_Inits Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (21)

G 15

19-Sep-1985

Fiche 4 Frame G15

Sequence 806

```

; 0700 2 BEGIN      ! Routine MM$Done_Inits
; 0701 3 RETURN (CRD$K_Repeat_Turing)
; 0702 1 END;       ! Routine MM$Done_Inits
  
```

```

      0000 00000 .ENTRY MM$DONE_INITS, Save nothing      ; 0677
    50      02 DO 00002 MOVL #2, R0                      ; 0701
04 00005      RET                                     ; 0702
  
```

; Routine Size: 6 bytes, Routine Base: CODE + 050E

ZZ-ENSAB-2.0	MM\$Print_Menu Routine	H 15		
CRDMMACT *** CRDMMACT Module	19-Sep-1985 16:56:02	VAX-11 Bliss-32 V4.1-746	Fiche 4	Frame H15
V01.4 MM\$Print_Menu Routine	30-May-1985 12:44:16	[DS.CRD.V020]CRDMMACT.B32;1	Page 34	Sequence 807

```

: 0703 1 xSBTTL 'MM$Print_Menu Routine'
: 0704 1
: 0705 1 GLOBAL ROUTINE MM$Print_Menu =
: 0706 1
: 0707 1 !++
: 0708 1 ! Functional Description:
: 0709 1 !
: 0710 1 ! Describe function of routine
: 0711 1 !
: 0712 1 ! Formal Input Parameters:
: 0713 1 !
: 0714 1 ! None
: 0715 1 !
: 0716 1 ! Formal Output Parameters:
: 0717 1 !
: 0718 1 ! None
: 0719 1 !
: 0720 1 ! Side Effects:
: 0721 1 !
: 0722 1 ! None
: 0723 1 !
: 0724 1 ! Completion Codes:
: 0725 1 !
: 0726 1 ! None
: 0727 1 ! --

```

ZZ-ENSAB-2.0 MM\$Print_Menu Routine I 15
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Fiche 4 Frame 115 Sequence 808
 V01.4 MM\$Print_Menu Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (23) Page 35

```

; 0728 2 BEGIN      ! Routine MM$Print_Menu
; 0729 2 DSA$V_Oper = True; ! Do this to indicate that an Operator is present to answer the prompts.
; 0730 2 MEN$FuncTest_Menu (); ! Call the Menu routine
; 0731 3 RETURN (CRD$K_Repeat_Turing) ! Repeat the Turing_Machine routine
; 0732 1 END;      ! Routine MM$Print_Menu

```

.EXTRN MEN\$FUNCTEST_MENU

```

      0000 00000 .ENTRY MM$PRINT_MENU, Save nothing ; 0705
0000FE01 9F      10 88 00002 B1SB2 #16, a#^X0000FE01 ; 0729
00000000G EF      00 FB 00009 CALLS #0, MEN$FUNCTEST_MENU ; 0730
      50      02 DO 00010 MOVL #2, R0 ; 0731
      04 00013 RET ; 0732

```

; Routine Size: 20 bytes, Routine Base: CODE + 0514

```

: 0733 1 xSBTTL 'MM$Change_Table Routine'
: 0734 1
: 0735 1 GLOBAL ROUTINE MM$Change_Table =
: 0736 1
: 0737 1 !*
: 0738 1 ! Functional Description:
: 0739 1 !
: 0740 1 ! Describe function of routine
: 0741 1 !
: 0742 1 ! Formal Input Parameters:
: 0743 1 !
: 0744 1 ! None
: 0745 1 !
: 0746 1 ! Formal Output Parameters:
: 0747 1 !
: 0748 1 ! None
: 0749 1 !
: 0750 1 ! Side Effects:
: 0751 1 !
: 0752 1 ! None
: 0753 1 !
: 0754 1 ! Completion Codes:
: 0755 1 !
: 0756 1 ! None
: 0757 1 ! --

```


ZZ-ENSAB-2.0 MM\$Change_Table Routine K 15
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 4 Frame K15 Sequence 810
 V01.4 MM\$Change_Table Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (25) Page 37

```

; 0758 2 BEGIN      ! Routine MM$Change_Table
; 0759 2 CRD$GB_Current_State_Table = MEN$K_TQ_State_Table;
; 0760 2      ! Before using this, always MAP REF it to the appropriate structure.
; 0761 3 RETURN (CRD$K_Repeat_Turing)
; 0762 1 END;      ! Routine MM$Change_Table

```

.EXTRN CRD\$GB_CURRENT_STATE_TABLE

```

      0000 00000 .ENTRY MM$CHANGE_TABLE, Save nothing      ; 0735
00000000G EF      01 90 00002      MOVB      #1, CRD$GB_CURRENT_STATE_TABLE      ; 0759
      50      02 D0 00009      MOVL      #2, R0      ; 0761
04 0000C      RET      ; 0762

```

; Routine Size: 13 bytes. Routine Base: CODE + 0528

ZZ-ENSAB-2.0 MM\$Menu_Prompt Routine

CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746

Page 38

V01.4 MM\$Menu_Prompt Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (26)

```
: 0763 1 xSBTTL 'MM$Menu_Prompt Routine'
: 0764 1
: 0765 1 GLOBAL ROUTINE MM$Menu_Prompt =
: 0766 1
: 0767 1 !**
: 0768 1 ! Functional Description:
: 0769 1 !
: 0770 1 ! Describe function of routine
: 0771 1 !
: 0772 1 ! Formal Input Parameters:
: 0773 1 !
: 0774 1 ! None
: 0775 1 !
: 0776 1 ! Formal Output Parameters:
: 0777 1 !
: 0778 1 ! None
: 0779 1 !
: 0780 1 ! Side Effects:
: 0781 1 !
: 0782 1 ! None
: 0783 1 !
: 0784 1 ! Completion Codes:
: 0785 1 !
: 0786 1 ! None
: 0787 1 ! --
```

ZZ-ENSAB-2.0 MM\$Menu_Prompt Routine

CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Page 39

V01.4 MM\$Menu_Prompt Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (27)

```

; 0788 2 BEGIN      ! Routine MM$Menu_Prompt
; 0789 2 !+
; 0790 2 ! Return failure so that the Main Menu prompt will go ahead and prompt the user
; 0791 2 ! for a menu selection, rather than calling CRD again. That is, returning failure
; 0792 2 ! will cause the QIO to be executed, prompting the user for a menu selection.
; 0793 2 !-
; 0794 2
; 0795 3 RETURN (CRD$K_Return_Failure)
; 0796 1 END;      ! Routine MM$Menu_Prompt

```

```

          0000 00000 .ENTRY MM$MENU_PROMPT, Save nothing      ; 0765
          50 D4 00002 CLRL R0 ; 0795
          04 00004 RET ; 0796

```

; Routine Size: 5 bytes, Routine Base: CODE + 0535

ZZ-ENSAB-2.0 MM\$Internal_Error Routine

CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 Page 40

V01.4 MM\$Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (28)

```
: 0797 1 xSBTTL 'MM$Internal_Error Routine'
: 0798 1
: 0799 1 GLOBAL ROUTINE MM$Internal_Error (TypeCode, Length, Address) =
: 0800 1
: 0801 1 !*
: 0802 1 ! Functional Description:
: 0803 1 !
: 0804 1 ! Describe function of routine
: 0805 1 !
: 0806 1 ! Formal Input Parameters:
: 0807 1 !
: 0808 1 ! None
: 0809 1 !
: 0810 1 ! Formal Output Parameters:
: 0811 1 !
: 0812 1 ! None
: 0813 1 !
: 0814 1 ! Side Effects:
: 0815 1 !
: 0816 1 ! None
: 0817 1 !
: 0818 1 ! Completion Codes:
: 0819 1 !
: 0820 1 ! None
: 0821 1 ! --
```

ZZ-ENSAB-2.0 MM\$Internal_Error Routine B 16
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 V4.1-746 Page 41
 V01.4 MM\$Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (29)

Sequence 814

```

; 0822 2 BEGIN      : Routine MM$Internal_Error
; 0823 2 MEN$Menu_Test_Internal_Error (CRD$K_MM_Internal_Error, .TypeCode, .Length, .Address);
; 0824 2 CRD$Stop (MENU$K_Exit_Internal_Error);
; 0825 3 RETURN (CRD$K_Return_Success)
; 0826 1 END;      ! Routine MM$Internal_Error
  
```

```

      0000 00000 .ENTRY MM$INTERNAL_ERROR, Save nothing      ; 0799
04 7E 08 AC 7D 00002 MOVQ LENGTH, -(SP) ; 0823
      AC DD 00006 PUSHL TYPECODE ;
      7E 06 CE 00009 MNEGL #6, -(SP) ;
00000000V EF 04 FB 0000C CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
      0D DD 00013 PUSHL #13 ; 0824
00000000G EF 01 FB 00015 CALLS #1, CRD$STOP ;
      50 01 D0 0001C MOVL #1, R0 ; 0825
04 0001F RET ; 0826
  
```

; Routine Size: 32 bytes, Routine Base: CODE + 053A

```
; 0827 1 xSBTTL 'MM$AutoSizer_Error Routine'
; 0828 1
; 0829 1 GLOBAL ROUTINE MM$AutoSizer_Error =
; 0830 1
; 0831 1 !**
; 0832 1 ! Functional Description:
; 0833 1 !
; 0834 1 ! Describe function of routine
; 0835 1 !
; 0836 1 ! Formal Input Parameters:
; 0837 1 !
; 0838 1 ! None
; 0839 1 !
; 0840 1 ! Formal Output Parameters:
; 0841 1 !
; 0842 1 ! None
; 0843 1 !
; 0844 1 ! Side Effects:
; 0845 1 !
; 0846 1 ! None
; 0847 1 !
; 0848 1 ! Completion Codes:
; 0849 1 !
; 0850 1 ! None
; 0851 1 ! --
```

```

; 0852 2 BEGIN      ! Routine MM$AutoSizer_Error
; 0853 2 CRD$AutoSizer_Error ();
; 0854 2 CRD$Stop (MENU$K_Exit_AutoSizer_Error);
; 0855 3 RETURN (CRD$K_Return_Failure)
; 0856 1 END;      ! Routine MM$AutoSizer_Error

```

.EXTRN CRD\$AUTOSIZER_ERROR

```

      0000 00000 .ENTRY MM$AUTOSIZER_ERROR, Save nothing ; 0829
00000000G EF 00 FB 00002 CALLS #0, CRD$AUTOSIZER_ERROR ; 0853
      0E DD 00009 PUSHL #14 ; 0854
00000000G EF 01 FB 0000B CALLS #1, CRD$STOP ;
      50 D4 00012 CLRL R0 ; 0855
      04 00014 RET ; 0856

```

; Routine Size: 21 bytes, Routine Base: CODE + 055A

```
; 0857 1 xSBTTL 'MEN$Menu_Test_Internal_Error Routine'
; 0858 1
; 0859 1 GLOBAL ROUTINE MEN$Menu_Test_Internal_Error (Error_Type, TypeCode, Length, Address) : NOVALUE =
; 0860 1
; 0861 1 !*+
; 0862 1 ! Functional Description:
; 0863 1 !
; 0864 1 ! Describe function of routine
; 0865 1 !
; 0866 1 ! Formal Input Parameters:
; 0867 1 !
; 0868 1 ! None
; 0869 1 !
; 0870 1 ! Formal Output Parameters:
; 0871 1 !
; 0872 1 ! None
; 0873 1 !
; 0874 1 ! Side Effects:
; 0875 1 !
; 0876 1 ! None
; 0877 1 !
; 0878 1 ! Completion Codes:
; 0879 1 !
; 0880 1 ! None
; 0881 1 ! --
```



```

; 0882 2 BEGIN      ! Routine MEN$Menu_Test_Internal_Error
; 0883 2 MAP
; 0884 2   CRD$AL_CRD_Dispatch_Vectors : VECTOR [4, BYTE];
; 0885 2
; 0886 2   !+
; 0887 2   ! Check that these constants are okay.           ![[01]]
; 0888 2   !-
; 0889 2
; P 0890 2   CRD_Assert ((CRD$K_Total_Numb_Vectors EQL (CRD$K_Numb_UnUsed_Vectors + CRD$K_Numb_Dispatch_Vectors)), ![[01]]
; L 0891 2   'Check the CRD.R32 library where it defines these constants');           ![[01]]
; XPRINT: ASSERT: The assertion is true.
; 0892 2
; 0893 2   !+
; 0894 2   ! Increment the negative version number in the dispatch vector area.       ![[01]]
; 0895 2   !-
; 0896 2
; 0897 2   CRD$AL_CRD_Dispatch_Vectors [1] = .CRD$AL_CRD_Dispatch_Vectors [1] + 1;
; 0898 2
; 0899 2   !+
; 0900 2   ! Now store all the debugging information we can think of!           ![[01]]
; 0901 2   !-
; 0902 2
; 0903 2   CRD$GL_CRD_Debug_Vector [0] = CRD$K_Total_Numb_Vectors; ! Store how many there are. ![[01]]
; 0904 2
; 0905 2   CRD$GL_CRD_Debug_Vector [1] = .Error_Type;           ![[01]]
; 0906 2
; 0907 2   CRD$GL_CRD_Debug_Vector [2] = .TypeCode;             ![[01]]
; 0908 2   CRD$GL_CRD_Debug_Vector [3] = .Length;               ![[01]]
; 0909 2   CRD$GL_CRD_Debug_Vector [4] = .Address;              ![[01]]
; 0910 2
; 0911 2   CRD$GL_CRD_Debug_Vector [5] = .CRD$GB_Current_State_Table;           ![[01]]
; 0912 2   CRD$GL_CRD_Debug_Vector [6] = .CRD$GL_MM_Current_State;             ![[01]]
; 0913 2   CRD$GL_CRD_Debug_Vector [7] = .CRD$GL_TQ_Current_State;             ![[01]]
; 0914 2   CRD$GL_CRD_Debug_Vector [8] = .CRD$GL_HS_Current_State;             ![[01]]
; 0915 2   CRD$GL_CRD_Debug_Vector [9] = .CRD$GL_Previous_State;             ![[01]]
; 0916 2
; 0917 2   CRD$GL_CRD_Debug_Vector [10] = .DSA$GL_Flags; ! DSA flags           ![[01]]
; 0918 2   CRD$GL_CRD_Debug_Vector [11] = .CRD$GA_DS_Flags; ! DS Flags           ![[01]]
; 0919 2
; 0920 2   CRD$GL_CRD_Debug_Vector [12] = .CRD$GA_HS_Current_DDB_Ptr;           ![[01]]
; 0921 2   CRD$GL_CRD_Debug_Vector [13] = .CRD$GA_HS_Current_HSB_Ptr;           ![[01]]
; 0922 2   CRD$GL_CRD_Debug_Vector [14] = .CRD$GL_HS_Current_HSB_Numb;           ![[01]]
; 0923 2
; 0924 2   CRD$GL_CRD_Debug_Vector [15] = .CRD$GL_TQ_Current_TQ_Entry;           ![[01]]
; 0925 2
; 0926 2   CRD$GL_CRD_Debug_Vector [16] = CRD$AL_CRD_Dispatch_Vectors; ! Starting address of CRD ![[01]]
; 0927 2
; 0928 2   !+
; 0929 2   ! Now, in the rest of the debug vectors, store the program counters of the last 'n' call frames. Note ![[01]]
; 0930 2   ! 'n' is dependent on how much information is stored above (i.e., how many debug vectors are left at ![[01]]
; 0931 2   ! this point).           ![[01]]
; 0932 2   !-
; 0933 2
; 0934 3   BEGIN      ![[01]]
; 0935 3   BUILTIN    ![[01]]
    
```

```

; 0936 3 PROBEW, ! Probe write-accessability ![01]
; 0937 3 PC, ! Program Counter ![01]
; 0938 3 FP; ! Frame pointer ![01]
; 0939 3
; 0940 3 LOCAL ![01]
; 0941 3 Program_Counter, ! ... ![01]
; 0942 3 Frame_Ptr; ! Temp frame pointer ![01]
; 0943 3
; 0944 3 INCR Index FROM 17 TO (CRD$K_Total_Numb_Vectors - 1) DO ![01]
; 0945 3 CRD$GL_CRD_Debug_Vector [.Index] = 0; ! Default to 0 ![01]
; 0946 3
; 0947 3 Frame_Ptr = .FP; ! Initialize to current frame ![01]
; 0948 3 Program_Counter = MEN$Menu_Test_Internal_Error; ! Initialize to this routine ![01]
; 0949 3 ! Program_Counter = .PC; ! Initialize to here ![01]
; 0950 3
; 0951 3 INCR Index FROM 17 TO (CRD$K_Total_Numb_Vectors - 1) DO ![01]
; 0952 4 BEGIN ![01]
; 0953 4 CRD$GL_CRD_Debug_Vector [.Index] = .Program_Counter; ![01]
; 0954 4 ! Store this PC in the debug vector ![01]
; 0955 4
; 0956 4 Frame_Ptr = (.Frame_Ptr + 12); ! Get next frame pointer ![01]
; 0957 4
; 0958 4 IF (.Frame_Ptr EQL 0) THEN ! If at the end of the linked list of frames, ![01]
; 0959 4 EXITLOOP; ! ... exit this loop ![01]
; 0960 4
; 0961 4 IF (NOT PROBEW (xREF (0), xREF (3), .Frame_Ptr)) THEN ![01]
; 0962 4 EXITLOOP; ! If we can't read it, exit this loop ![01]
; 0963 4
; 0964 4 Program_Counter = (.Frame_Ptr + 16); ! Pick out PC from next frame ![01]
; 0965 3 END; ![01]
; 0966 2 END; ![01]
; 0967 1 END; ! Routine MEN$Menu_Test_Internal_Error
  
```

```

.EXTRN CRD$AL_CRD_DISPATCH_VECTORS
.EXTRN CRD$GL_CRD_DEBUG_VECTOR
.EXTRN CRD$GL_TQ_CURRENT_STATE
.EXTRN CRD$GL_HS_CURRENT_STATE
.EXTRN CRD$GA_DS_FLAGS
.EXTRN CRD$GA_HS_CURRENT_DDB_PTR
.EXTRN CRD$GA_HS_CURRENT_HSB_PTR
.EXTRN CRD$GL_HS_CURRENT_HSB_NUMB
.EXTRN CRD$GL_TQ_CURRENT_TQ_ENTRY
  
```

```

0004 0000 .ENTRY MEN$MENU_TEST_INTERNAL_ERROR, Save R2 ; 0859
00000000G EF 96 00002 INCB CRD$AL_CRD_DISPATCH_VECTORS+1 ; 0897
00000000G EF 19 DO 00008 MOVL #25, CRD$GL_CRD_DEBUG_VECTOR ; 0903
00000000G EF 04 AC 7D 0000F MOVQ ERROR_TYPE, CRD$GL_CRD_DEBUG_VECTOR+4 ; 0905
00000000G EF 0C AC 7D 00017 MOVQ LENGTH, CRD$GL_CRD_DEBUG_VECTOR+12 ; 0908
00000000G EF 00000000G EF 9A 0001F MOVZBL CRD$GB_CURRENT_STATE_TABLE, - ; 0911
CRD$GL_CRD_DEBUG_VECTOR+20 ;
00000000G EF 00000000G EF D0 0002A MOVL CRD$GL_MM_CURRENT_STATE, - ; 0912
CRD$GL_CRD_DEBUG_VECTOR+24 ;
00000000G EF 00000000G EF D0 00035 MOVL CRD$GL_TQ_CURRENT_STATE, - ; 0913
  
```

```

    CRD$GL_CRD_DEBUG_VECTOR+28      ;
00000000G EF 00000000G EF D0 00040  ; MOVL   CRD$GL_HS_CURRENT_STATE, -      ; 0914
    CRD$GL_CRD_DEBUG_VECTOR+32      ;
00000000G EF 00000000G EF D0 0004B  ; MOVL   CRD$GL_PREVIOUS_STATE, -      ; 0915
    CRD$GL_CRD_DEBUG_VECTOR+36      ;
00000000G EF 0000FE00 9F D0 00056  ; MOVL   @#^X0000FE00, CRD$GL_CRD_DEBUG_VECTOR+40 ; 0917
00000000G EF 00000000G FF D0 00061  ; MOVL   @CRD$GA_DS_FLAGS, -      ; 0918
    CRD$GL_CRD_DEBUG_VECTOR+44      ;
00000000G EF 00000000G EF D0 0006C  ; MOVL   CRD$GA_HS_CURRENT_DDB_PTR, -      ; 0920
    CRD$GL_CRD_DEBUG_VECTOR+48      ;
00000000G EF 00000000G EF D0 00077  ; MOVL   CRD$GA_HS_CURRENT_HSB_PTR, -      ; 0921
    CRD$GL_CRD_DEBUG_VECTOR+52      ;
00000000G EF 00000000G EF D0 00082  ; MOVL   CRD$GL_HS_CURRENT_HSB_NUMB, -      ; 0922
    CRD$GL_CRD_DEBUG_VECTOR+56      ;
00000000G EF 00000000G EF D0 0008D  ; MOVL   CRD$GL_TQ_CURRENT_TQ_ENTRY, -      ; 0924
    CRD$GL_CRD_DEBUG_VECTOR+60      ;
00000000G EF 00000000G EF 9E 00098  ; MOVAB  CRD$AL_CRD_DISPATCH_VECTORS, -      ; 0926
    CRD$GL_CRD_DEBUG_VECTOR+64      ;
50 11 D0 000A3  ; MOVL   #17, INDEX      ; 0944
00000000GEF40 D4 000A6 1$ : CLRL   CRD$GL_CRD_DEBUG_VECTOR[INDEX]      ; 0945
F5 50 18 F3 000AD  ; AOBLEQ #24, INDEX, 1$      ;
51 5D D0 000B1  ; MOVL   FP, FRAME_PTR      ; 0947
52 FF48 CF 9E 000B4  ; MOVAB  MEN$MENU_TEST_INTERNAL_ERROR, -      ; 0948
    PROGRAM_COUNTER      ;
50 11 D0 000B9  ; MOVL   #17, INDEX      ; 0951
00000000GEF40 52 D0 000BC 2$ : MOVL   PROGRAM_COUNTER, CRD$GL_CRD_DEBUG_VECTOR- ; 0953
    [INDEX]      ;
51 0C A1 D0 000C4  ; MOVL   12(FRAME_PTR), FRAME_PTR      ; 0956
0E 13 000C8  ; BEQL   3$      ; 0958
61 03 00 0D 000CA  ; PROBEW #0, #3, (FRAME_PTR)      ; 0961
08 13 000CE  ; BEQL   3$      ;
52 10 A1 D0 000D0  ; MOVL   16(FRAME_PTR), PROGRAM_COUNTER      ; 0964
E4 50 18 F3 000D4  ; AOBLEQ #24, INDEX, 2$      ; 0951
04 000D8 3$ : RET      ; 0967
  
```

; Routine Size: 217 bytes, Routine Base: CODE + 056F

```

; 0968 1 END      ! End of CRDMMACT module
; 0969 0 ELUDOM
  
```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	463	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	1608	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
WORK	500	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Symbol	Type	Defined	Referenced ...
\$ASCIC	Unbound	142	143
Macro Lib02	131	132	294 295 414 417 592 598 600
\$BITPOSITION	Macro	Lib05 344	
\$CHECK_OA_STATUS	Macro	137	294 295 414 417 592 598 600
\$CLOSE	KeyWMacr	Lib05 597	
\$CONNECT	KeyWMacr	Lib05 416	
\$CRD_LITERALS	Macro	Lib03 107	
\$CRD_PRINT	Unbound	141	145 146
Macro Lib03	194	253 294 295 414 417 592 598 600 632	
\$CRD_RETURN_LENGTH_STATUS	Macro	Lib03 273	392 472 550 584
\$DS_DSADef	Macro	Lib02 106	
\$DS_TPEDEF	Macro	Lib02 194	253 294 295 414 417 592 598 600 632
\$EQLST	Macro	Lib05 107	108 194 253 294 295 414 417 592 598 600 632
600		632	
\$ER	Comptime	128	
\$ERASE	KeyWMacr	Lib05 599	
\$FAB	KeyWMacr	Lib05 342	
\$FAB_DECL	Macro	Lib05 344	
\$FAO	Macro	Lib05 464	
\$GET	KeyWMacr	Lib05 564	
\$LOAD_ASCID_A	KeyWMacr	161	460
\$LOAD_ASCID_S	KeyWMacr	153	289 290 425 431 437 443 449
\$MODULE	Bind	128	
\$OPEN	KeyWMacr	Lib05 413	
\$RAB	KeyWMacr	Lib05 345	
\$RAB_DECL	Macro	Lib05 345	
\$RAB_DECL_ASYNC	Unbound		345
\$RMS_BITFLD	Macro	Lib05 344	345
\$RMS_BITS	Unbound		344 345
Macro Lib05	344		
\$RMS_CODFLD	Macro	Lib05 344	345
\$RMS_OR	Macro	Lib05 344	
\$RMS_VALFLD	Unbound		344

```
Macro      Lib05      344      345
$SCREEN_L  TERALS Macro      Lib03      108
ADDRESS    RoutForm  799      823.
RoutForm  859      909.
ADR      KeyWForm  161      166
ARG      MacrForm  137      138      143      144
AUTOSK_EXIT_AUTOSIZER_ERROR Literal      107
AUTOSK_EXIT_CONTROL_C Literal      107
AUTOSK_EXIT_DUMMY_2 Literal      107
AUTOSK_EXIT_DUMMY_3 Literal      107
AUTOSK_EXIT_ERRORS_COMPLETE Literal      107
AUTOSK_EXIT_ERRORS_INCOMPLETE Literal      107
AUTOSK_EXIT_INTERNAL_ERROR Literal      107
AUTOSK_EXIT_INV_BASE_SYSTEM Literal      107
AUTOSK_EXIT_LAST_REASON Literal      107      107
AUTOSK_EXIT_NOERRORS_COMPLETE Literal      107
AUTOSK_EXIT_NOERRORS_INCOMPLETE Literal      107
AUTOSK_EXIT_NOERRORS_PREP Literal      107
CLI_BUFFER_ADDRESS RoutForm  200      270a=      272.
RoutForm  302      389a=      391.      470a=      471.
RoutForm  480      547a=      549.      574.      583.
CLI_BUFFER_LENGTH RoutForm  200      270.      272.
RoutForm  302      388.      391.      470.      471.
RoutForm  480      547.      549.      574.      583.
CMD      Own      239      290=      293a
CNTRL      Own      524
CRD$AL_CRD_DISPATCH_VECTORS External Lib03      884m      897=      897.      926a
CRD$AUTOSIZER_ERROR ExtRout Lib03      853c
CRD$GA_DS_FLAGS External Lib03      918a.
CRD$GA_FILE_FAB Global      342      344=      406=      407=      407a.      408=      408.      410a      413a      514e
Map      518      597a      599a
CRD$GA_FILE_RAB Global      345      345=      410=      411=      416a      515e
Map      519      564a
CRD$GA_HS_CURRENT_DDB_PTR External Lib03      920.
CRD$GA_HS_CURRENT_HSB_PTR External Lib03      921.
CRD$GA_REC_BUF Global      341      411a      513e
Map      517
CRD$GB_CURRENT_STATE_TABLE External Lib03      759=      911.
CRD$GL_CRD_DEBUG_VECTOR External Lib03      903=      905=      907=      908=      909=      911=      912=      913=
      917=      918=      920=      921=      922=      924=      926=      945=      953=
CRD$GL_HS_CURRENT_HSB_NUMB External Lib03      922.
CRD$GL_HS_CURRENT_STATE External Lib03      914.
CRD$GL_MM_CURRENT_STATE External Lib03      578=      912.
CRD$GL_PREVIOUS_STATE External Lib03      578.      915.
CRD$GL_TQ_CURRENT_STATE External Lib03      913.
CRD$GL_TQ_CURRENT_TQ_ENTRY External Lib03      924.
CRD$GT_AUTOSIZER_ERROR Unbound      146
External Lib03      294a      295a      414a      417a      592a      598a      600a
CRD$GT_AUTOSIZER_NAME External Lib03
GlobBind  131      244m      268.
CRD$GT_AUTOSIZER_SET_FLAGS External Lib03
GlobBind  132      363m      377.      385.      386.
CRD$GT_DS_LOAD_COM External Lib03      245m      267.
```

Symbol	Type	Defined	Referenced ...
CRD\$GT_DS_SET_FLAGS_COM	External	Lib03 364m	383. 384.
CRD\$GT_DS_START_COM	External	Lib03 531m	545.
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	107	
CRD\$K_ACTION_RANGE_ERROR	Literal	107	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	107	
CRD\$K_ADVANCE_GENERAL_COM	Literal	107	
CRD\$K_ADVANCE_STATE	Literal	107	
CRD\$K_ALLOCATION_ERROR	Literal	107	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	107	
CRD\$K_AUTOSIZER_ERROR	Literal	107	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	107	
CRD\$K_BAD_ACTION_NUMBER	Literal	107	
CRD\$K_BAD_TYPECODE_ERROR	Literal	107	
CRD\$K_BASE_SYSTEM_IDC	Literal	107	
CRD\$K_BASE_SYSTEM_LESI	Literal	107	
CRD\$K_BASE_SYSTEM_NULL	Literal	107	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	107	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	107	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	107	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	107	
CRD\$K_CRD_INITIALIZATION	Literal	107	
CRD\$K_CREATE_HST	Literal	107	
CRD\$K_DATA_LENGTH_ERROR	Literal	107	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	107	
CRD\$K_DDB_BLINK	Literal	107	
CRD\$K_DDB_FLINK	Literal	107	
CRD\$K_DDB_LAST_ENTRY	Literal	107	
CRD\$K_DDB_MEMORY_SIZE	Literal	107	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	107	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	107	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	107	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	107	
CRD\$K_DDB_PTABLE_ENTRY	Literal	107	
CRD\$K_DDB_STATUS	Literal	107	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	107	
CRD\$K_DEVICE_NAME	Literal	107	
CRD\$K_DIAGNOSTIC_ERROR	Literal	107	
CRD\$K_DIAGNOSTIC_NAME	Literal	107	
CRD\$K_DONE_GENERAL_COMS	Literal	107	
CRD\$K_DO_NOTHING	Literal	107	
CRD\$K_DS_COMMAND_SIZE	Literal	Lib03 273	392 472 550 584
CRD\$K_DUMMY_10	Literal	107	
CRD\$K_DUMMY_11	Literal	107	
CRD\$K_DUMMY_12	Literal	107	
CRD\$K_DUMMY_13	Literal	107	
CRD\$K_DUMMY_3	Literal	107	
CRD\$K_DUMMY_4	Literal	107	
CRD\$K_DUMMY_5	Literal	107	
CRD\$K_DUMMY_6	Literal	107	
CRD\$K_DUMMY_7	Literal	107	
CRD\$K_DUMMY_8	Literal	107	
CRD\$K_DUMMY_9	Literal	107	
CRD\$K_EXIT_CRD	Literal	107	

Symbol	Type	Defined	Referenced	...
CRD\$K_FAILURE	Unbound	148		
CRD\$K_HOOK_POINT	Lib03 294 295	414	417	592 598 600 604
CRD\$K_HS_INTERNAL_ERROR	Literal 107			
CRD\$K_IDC_EVDLB	Literal 107			
CRD\$K_IDC_EVDLC	Literal 107			
CRD\$K_IDC_EVDLD	Literal 107			
CRD\$K_IDC_EVRAD_0	Literal 107			
CRD\$K_IDC_EVRAD_1	Literal 107			
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal 107			
CRD\$K_INTERNAL_ERROR	Literal 107			
CRD\$K_LAST_ACTION_ROUTINE	Literal 107			
CRD\$K_LAST_ENTRY	Literal 107			
CRD\$K_LAST_FUNCTION	Literal 107			
CRD\$K_LAST_HOOK_POINT	Literal 107			
CRD\$K_LAST_INTERNAL_ERROR	Literal 107			
CRD\$K_LAST_TYPE	Literal 107			
CRD\$K_LESI_ENWCA	Literal 107			
CRD\$K_LESI_EVRMB_0	Literal 107			
CRD\$K_LESI_EVRMB_1	Literal 107			
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal 107			
CRD\$K_LEVEL_4_PASSED	Literal 107			
CRD\$K_LOAD_AUTOSIZER	Literal 107			
CRD\$K_LOAD_ERROR	Literal 107			
CRD\$K_LOAD_GENERAL_COM	Literal 107			
CRD\$K_LOAD_LOAD_COM	Literal 107			
CRD\$K_LOAD_SELECT_COM	Literal 107			
CRD\$K_LOAD_SET_EVENT_COM	Literal 107			
CRD\$K_LOAD_SET_FLAGS_COM	Literal 107			
CRD\$K_LOAD_START_COM	Literal 107			
CRD\$K_LOAD_SUP_FILE	Literal 107			
CRD\$K_MM_INTERNAL_ERROR	Literal 107 823			
CRD\$K_NEW_LINE	Literal 107			
CRD\$K_NUMB_DISPATCH_VECTORS	Literal Lib03 891			
CRD\$K_NUMB_UNUSED_VECTORS	Literal Lib03 891			
CRD\$K_PREPARATION_ERROR	Literal 107			
CRD\$K_PREPARATION_ERROR_TEXT	Literal 107			
CRD\$K_REPEAT_TURING	Literal Lib03 196	379	643	673 701 731 761
CRD\$K_RETURN_FAILURE	Literal Lib03 795	855		
CRD\$K_RETURN_SUCCESS	Literal Lib03 825			
CRD\$K_RUNTIME	Literal 107			
CRD\$K_SAME_LINE	Literal 107			
CRD\$K_SET_EVENT_ARGS	Literal 107			
CRD\$K_SET_FLAGS_ARGS	Literal 107			
CRD\$K_SET_UP_DIAGNOSTIC	Literal 107			
CRD\$K_START	Literal 107			
CRD\$K_START_AUTOSIZER	Literal 107			
CRD\$K_START_ERROR	Literal 107			
CRD\$K_START_QUALIFIERS	Literal 107			
CRD\$K_STAR_LINE	Literal 107			
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal 107			
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal 107			
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal 107			

Symbol	Type	Defined	Referenced ...

CRD\$K_STATE_AUTOSIZER_ERROR	Literal	107	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	107	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	107	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	107	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	107	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	107	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	107	
CRD\$K_STATE_DUMMY_1	Literal	107	
CRD\$K_STATE_DUMMY_10	Literal	107	
CRD\$K_STATE_DUMMY_12	Literal	107	
CRD\$K_STATE_DUMMY_13	Literal	107	
CRD\$K_STATE_DUMMY_2	Literal	107	
CRD\$K_STATE_DUMMY_3	Literal	107	
CRD\$K_STATE_DUMMY_4	Literal	107	
CRD\$K_STATE_DUMMY_6	Literal	107	
CRD\$K_STATE_DUMMY_7	Literal	107	
CRD\$K_STATE_DUMMY_8	Literal	107	
CRD\$K_STATE_EXIT_CRD	Literal	107	
CRD\$K_STATE_INTERNAL_ERROR	Literal	107	
CRD\$K_STATE_LAST_STATE	Literal	107	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	107	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	107	
CRD\$K_STATE_LOAD_ERROR	Literal	107	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	107	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	107	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	107	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	107	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	107	
CRD\$K_STATE_LOAD_START_COM	Literal	107	
CRD\$K_STATE_PREPARATION_ERROR	Literal	107	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	107	
CRD\$K_STATE_START	Literal	107	
CRD\$K_STATE_START_AUTOSIZER	Literal	107	
CRD\$K_STATE_START_ERROR	Literal	107	
CRD\$K_SUCCESS	Unbound	273 392 472 550 584	
Literal Lib03	273 298 392 455 472 465 550 474 584 587		
601			
CRD\$K_TEST_START_TEXT	Literal	107	
CRD\$K_TOTAL_NUMB_VECTORS	Literal Lib03	891 903 944 951	
CRD\$K_TQ_INTERNAL_ERROR	Literal	107	
CRD\$K_TYPECODE	Literal	107	
CRD\$K_UDA_0_EVDLB	Literal	107	
CRD\$K_UDA_0_EVDLC	Literal	107	
CRD\$K_UDA_0_EVDLD	Literal	107	
CRD\$K_UDA_0_EVRLA_0	Literal	107	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	107	
CRD\$K_UDA_1_EVDLB	Literal	107	
CRD\$K_UDA_1_EVDLC	Literal	107	
CRD\$K_UDA_1_EVDLD	Literal	107	
CRD\$K_UDA_1_EVRLA_0	Literal	107	
CRD\$K_UDA_1_EVRLA_1	Literal	107	
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	107	
CRD\$K_UDA_2_EVDLB	Literal	107	

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine C 1
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame C1
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 53

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Symbol	Type	Defined	Referenced	...
CRD\$K_UA_2_EVDLC	Literal	107		
CRD\$K_UA_2_EVDLD	Literal	107		
CRD\$K_UA_2_EVRLA_0	Literal	107		
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	107		
CRD\$K_UA_3_EVDLB	Literal	107		
CRD\$K_UA_3_EVDLC	Literal	107		
CRD\$K_UA_3_EVDLD	Literal	107		
CRD\$K_UA_3_EVRLA_0	Literal	107		
CRD\$K_UA_3_EVRLA_1	Literal	107		
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	107		
CRD\$PRINT	External Lib03	194ac	253ac	294ac 295ac 414ac 417ac 592ac 598ac 600ac 632ac
CRD\$PRINT_DS_COMMAND	ExtRout Lib03	272c	391c	471c 549c 583c
CRD\$SCREEN_PAUSE	ExtRout Lib03	635c		
CRD\$STOP	Unbound	147		
CRD_ASSERT	ExtRout Lib03	294c	295c	414c 417c 592c 598c 600c 824c 854c
DS\$K_PRINTB	Macro Lib03	890		
DS\$K_PRINTB	Literal	194		
DS\$K_PRINTB	Literal	253		
DS\$K_PRINTB	Literal	294		
DS\$K_PRINTB	Literal	294		
DS\$K_PRINTB	Literal	294		
DS\$K_PRINTB	Literal	295		
DS\$K_PRINTB	Literal	295		
DS\$K_PRINTB	Literal	295		
DS\$K_PRINTB	Literal	414		
DS\$K_PRINTB	Literal	414		
DS\$K_PRINTB	Literal	414		
DS\$K_PRINTB	Literal	417		
DS\$K_PRINTB	Literal	417		
DS\$K_PRINTB	Literal	417		
DS\$K_PRINTB	Literal	592		
DS\$K_PRINTB	Literal	592		
DS\$K_PRINTB	Literal	592		
DS\$K_PRINTB	Literal	598		
DS\$K_PRINTB	Literal	598		
DS\$K_PRINTB	Literal	598		
DS\$K_PRINTB	Literal	600		
DS\$K_PRINTB	Literal	600		
DS\$K_PRINTB	Literal	600		
DS\$K_PRINTB	Literal	632		
DS\$K_PRINTF	Literal	194	194	
DS\$K_PRINTF	Literal	253	253	
DS\$K_PRINTF	Literal	294	294	
DS\$K_PRINTF	Literal	294	294	
DS\$K_PRINTF	Literal	294	294	
DS\$K_PRINTF	Literal	295	295	
DS\$K_PRINTF	Literal	295	295	
DS\$K_PRINTF	Literal	295	295	
DS\$K_PRINTF	Literal	414	414	
DS\$K_PRINTF	Literal	414	414	
DS\$K_PRINTF	Literal	414	414	
DS\$K_PRINTF	Literal	417	417	
DS\$K_PRINTF	Literal	417	417	

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34)

D 1

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Sequence 827

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Symbol Type Defined Referenced ...

	Literal	417	417
	Literal	592	592
	Literal	592	592
	Literal	592	592
	Literal	598	598
	Literal	598	598
	Literal	598	598
	Literal	600	600
	Literal	600	600
	Literal	600	600
	Literal	632	632
DS\$K_PRINTI	Literal		194
	Literal	253	
	Literal	294	
	Literal	294	
	Literal	294	
	Literal	295	
	Literal	295	
	Literal	295	
	Literal	414	
	Literal	414	
	Literal	414	
	Literal	417	
	Literal	417	
	Literal	417	
	Literal	592	
	Literal	592	
	Literal	592	
	Literal	598	
	Literal	598	
	Literal	598	
	Literal	600	
	Literal	600	
	Literal	600	
	Literal	632	
DS\$K_PRINTX	Literal		194
	Literal	253	
	Literal	294	
	Literal	294	
	Literal	294	
	Literal	295	
	Literal	295	
	Literal	295	
	Literal	414	
	Literal	414	
	Literal	414	
	Literal	417	
	Literal	417	
	Literal	417	
	Literal	592	
	Literal	592	
	Literal	592	
	Literal	598	

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine E 1
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame E1
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 55

Sequence 828

Symbol Type Defined Referenced ...

	Literal	598		
	Literal	598		
	Literal	600		
	Literal	600		
	Literal	600		
	Literal	632		
DS\$K	TYPE_ABORT PROGRAM	Literal	194	
	Literal	253		
	Literal	294		
	Literal	294		
	Literal	294		
	Literal	295		
	Literal	295		
	Literal	295		
	Literal	414		
	Literal	414		
	Literal	414		
	Literal	417		
	Literal	417		
	Literal	417		
	Literal	592		
	Literal	592		
	Literal	592		
	Literal	598		
	Literal	598		
	Literal	598		
	Literal	600		
	Literal	600		
	Literal	600		
	Literal	632		
DS\$K	TYPE_ABORT TEST	Literal	194	
	Literal	253		
	Literal	294		
	Literal	294		
	Literal	294		
	Literal	295		
	Literal	295		
	Literal	295		
	Literal	414		
	Literal	414		
	Literal	414		
	Literal	417		
	Literal	417		
	Literal	417		
	Literal	592		
	Literal	592		
	Literal	592		
	Literal	598		
	Literal	598		
	Literal	598		
	Literal	600		
	Literal	600		
	Literal	600		

Symbol	Type	Defined	Referenced ...
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Literal	294	294	
Literal	295	295	
Literal	295	295	
Literal	295	295	
Literal	414	414	
Literal	414	414	
Literal	414	414	
Literal	417	417	
Literal	417	417	
Literal	417	417	
Literal	592	592	
Literal	592	592	
Literal	592	592	
Literal	598	598	
Literal	598	598	
Literal	598	598	
Literal	600	600	
Literal	600	600	
Literal	600	600	
Literal	632	632	
DS\$K_TYPE_DS_PROMPT	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_DS_START	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine H 1
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H1 Sequence 831
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 58

Symbol Type Defined Referenced ...

Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_ERRDEV	Literal		194	
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_ERRHARD	Literal		194	
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			

Symbol	Type	Defined	Referenced	...

Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_ERROR_BODY	Literal		194	
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
Literal		417		
Literal		417		
Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_ERROR_END	Literal		194	
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
Literal		417		
Literal		417		
Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		

Symbol	Type	Defined	Referenced	...

Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_ERRPREP	Literal		194	
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
Literal		417		
Literal		417		
Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_ERRSOFT	Literal		194	
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
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Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		

Literal	253
Literal	294
Literal	294
Literal	294

Symbol	Type	Defined	Referenced	...
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
Literal		417		
Literal		417		
Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_EXCEPTION	Literal	194		
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
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Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	194		
Literal		253		
Literal		294		
Literal		294		
Literal		294		
Literal		295		
Literal		295		
Literal		295		
Literal		414		
Literal		414		

V01.4 MENSMenu Test Internal Error Routine 30-May-1985 12:44:16 [DS:CRD.V020]CRDMMACT.B32:1 (34)

Literal	414
Literal	417
Literal	417
Literal	417
Literal	592
Literal	592
Literal	592
Literal	598
Literal	598
Literal	598
Literal	600
Literal	600
Literal	600
Literal	632

DS\$K_TYPE_FIRST_PASS Literal 194

Literal	253
Literal	294
Literal	294
Literal	294
Literal	295
Literal	295
Literal	295
Literal	414
Literal	414
Literal	414
Literal	417
Literal	417
Literal	417
Literal	592
Literal	592
Literal	592
Literal	598
Literal	598
Literal	598
Literal	600
Literal	600
Literal	600
Literal	632

DS\$K TYPE GENERAL Literal 194

BOOK	TITLE	SERIAL
	Literal	253
	Literal	294
	Literal	294
	Literal	294
	Literal	295
	Literal	295
	Literal	295
	Literal	414
	Literal	414
	Literal	414
	Literal	417
	Literal	417
	Literal	417
	Literal	592

[illegible]

Symbol	Type	Defined	Referenced	...
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Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_GENERAL_ERROR	Literal	194		
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_NO_TESTS	Literal	194		
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			

Symbol Type Defined Referenced ...

	Literal	600		
	Literal	600		
	Literal	600		
	Literal	632		
DS\$K	TYPE_PARAM_ERROR	Literal	194	
	Literal	253		
	Literal	294		
	Literal	294		
	Literal	294		
	Literal	295		
	Literal	295		
	Literal	295		
	Literal	414		
	Literal	414		
	Literal	414		
	Literal	417		
	Literal	417		
	Literal	417		
	Literal	592		
	Literal	592		
	Literal	592		
	Literal	598		
	Literal	598		
	Literal	598		
	Literal	600		
	Literal	600		
	Literal	600		
	Literal	632		
DS\$K	TYPE_PROGRAM_END	Literal	194	
	Literal	253		
	Literal	294		
	Literal	294		
	Literal	294		
	Literal	295		
	Literal	295		
	Literal	295		
	Literal	414		
	Literal	414		
	Literal	414		
	Literal	417		
	Literal	417		
	Literal	417		
	Literal	592		
	Literal	592		
	Literal	592		
	Literal	598		
	Literal	598		
	Literal	598		
	Literal	600		
	Literal	600		
	Literal	600		
	Literal	632		
DS\$K	TYPE_PROGRAM_INFO	Literal	194	

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34)

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Sequence 839

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Symbol Type Defined Referenced ...

Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_PROGRAM_START	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_QIO_INVADP	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		

ZZ ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine D 2
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame D2
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 67

Sequence 840

Symbol	Type	Defined	Referenced	...
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Litera		295		
Litera		295		
Litera		414		
Litera		414		
Litera		414		
Litera		417		
Litera		417		
Litera		417		
Litera		592		
Litera		592		
Litera		592		
Litera		598		
Litera		598		
Litera		598		
Litera		600		
Litera		600		
Litera		600		
Litera		632		
DS\$K_TYPE_QIO_NODRIVER	Litera		194	
Litera		253		
Litera		294		
Litera		294		
Litera		294		
Litera		295		
Litera		295		
Litera		295		
Litera		414		
Litera		414		
Litera		414		
Litera		417		
Litera		417		
Litera		417		
Litera		592		
Litera		592		
Litera		592		
Litera		598		
Litera		598		
Litera		598		
Litera		600		
Litera		600		
Litera		600		
Litera		632		
DS\$K_TYPE_QIO_WRONGVER	Litera		194	
Litera		253		
Litera		294		
Litera		294		
Litera		294		
Litera		295		
Litera		295		
Litera		295		
Litera		414		
Litera		414		
Litera		414		

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine E 2
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame E2
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 68

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Symbol Type Defined Referenced ...

L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	592		
L i t e r a l	592		
L i t e r a l	592		
L i t e r a l	598		
L i t e r a l	598		
L i t e r a l	598		
L i t e r a l	600		
L i t e r a l	600		
L i t e r a l	600		
L i t e r a l	632		
DS\$K TYPE SCRIPT ECHO L i t e r a l	194		
L i t e r a l	253		
L i t e r a l	294		
L i t e r a l	294		
L i t e r a l	294		
L i t e r a l	295		
L i t e r a l	295		
L i t e r a l	295		
L i t e r a l	414		
L i t e r a l	414		
L i t e r a l	414		
L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	592		
L i t e r a l	592		
L i t e r a l	592		
L i t e r a l	598		
L i t e r a l	598		
L i t e r a l	598		
L i t e r a l	600		
L i t e r a l	600		
L i t e r a l	600		
L i t e r a l	632		
DS\$K TYPE SCRIPT PNF L i t e r a l	194		
L i t e r a l	253		
L i t e r a l	294		
L i t e r a l	294		
L i t e r a l	294		
L i t e r a l	295		
L i t e r a l	295		
L i t e r a l	295		
L i t e r a l	414		
L i t e r a l	414		
L i t e r a l	414		
L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	417		
L i t e r a l	592		
L i t e r a l	592		

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine F 2
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame F2
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 69

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Symbol Type Defined Referenced ...

Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_SCRIPT_PROMPT	Literal	194		
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			
Literal	600			
Literal	600			
Literal	632			
DS\$K_TYPE_SCRIPT_SKIP	Literal	194		
Literal	253			
Literal	294			
Literal	294			
Literal	294			
Literal	295			
Literal	295			
Literal	295			
Literal	414			
Literal	414			
Literal	414			
Literal	417			
Literal	417			
Literal	417			
Literal	592			
Literal	592			
Literal	592			
Literal	598			
Literal	598			
Literal	598			
Literal	600			

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34)

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Symbol Type Defined Referenced ...

Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_START_ERR	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_START_LIST	Literal	194	
Literal	253		

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine H 2
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H2
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 Page 71 (34)

Sequence 844

Symbol Type Defined Referenced ...

Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_SUMMARY	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		
Literal	295		
Literal	414		
Literal	414		
Literal	414		
Literal	417		
Literal	417		
Literal	417		
Literal	592		
Literal	592		
Literal	592		
Literal	598		
Literal	598		
Literal	598		
Literal	600		
Literal	600		
Literal	600		
Literal	632		
DS\$K_TYPE_USER_PROMPT	Literal	194	
Literal	253		
Literal	294		
Literal	294		
Literal	294		
Literal	295		
Literal	295		

Symbol	Type	Defined	Referenced	...
Literal		295		
Literal		414		
Literal		414		
Literal		414		
Literal		417		
Literal		417		
Literal		417		
Literal		592		
Literal		592		
Literal		592		
Literal		598		
Literal		598		
Literal		598		
Literal		600		
Literal		600		
Literal		600		
Literal		632		
DSA\$AL_APTMAIL	Bind	106	106	
DSA\$GL_APTCOM	Bind	106		
DSA\$GL_DEVLEN	Bind	106		
DSA\$GL_DEVNAM	Bind	106		
DSA\$GL_ERRNO	Bind	106		
DSA\$GL_EVENT	Bind	106		
DSA\$GL_FLAGS	Bind	106	263 284 294 295 374 403 414 417 541 560	
		592 598 600 729 917		
DSA\$GL_MSGPTR	Bind	106		
DSA\$GL_MSGTYP	Bind	106		
DSA\$GL_PASSES	Bind	106		
DSA\$GL_PASSNO	Bind	106		
DSA\$GL_SECTNO	Bind	106		
DSA\$GL_SID	Bind	106 422		
DSA\$GL_SUBTNO	Bind	106		
DSA\$GL_TESTNO	Bind	106		
DSA\$GL_UNITS	Bind	106		
DSA\$V_CRD_MENUTEST_OFF	Macro	Lib02 263 374 541		
DSA\$V_CRD_MENUTEST_ON	Macro	Lib02 284 403 560		
DSA\$V_CRD_TRACE	Unbound	140		
	Macro	Lib02 294 295 414 417 592 598 600		
DSA\$V_OPER	Macro	Lib02 729		
DSC\$K_CLASS_S	Unbound	157 165		
	Literal	Lib05 289 290 429 435 441 447 453 460		
DSC\$K_DTYPE_T	Unbound	156 164		
	Literal	Lib05 289 290 429 435 441 447 453 460		
ERROR_TYPE	RoutForm	859 905.		
EVSBB\$S_EVSBB\$REC	Literal	Lib04 341 345		
FAB\$B_FNS	Macro	Lib05 407		
FAB\$C_BID	Literal	Lib05 344		
FAB\$C_BLN	Literal	Lib05 344		
FAB\$C_SEQ	Literal	Lib05 344		
FAB\$C_VAR	Literal	Lib05 344		
FAB\$L_FNA	Macro	Lib05 406 407 408		
FAB\$M_CR	Literal	Lib05 344		
FAB\$M_GET	Literal	Lib05 344		

Symbol	Type	Defined	Referenced	...
FAB\$V_CHAN_MODE	Macro	Lib05	344	
FAB\$V_FILE_MODE	Macro	Lib05	344	
FAB\$V_LNM_MODE	Macro	Lib05	344	
FAO_BUFF	Own	357	460a	469.
FAO_BUFF_SIZE	Literal	354	357	460
FAO_INPUT_DSC	Own	359	429=	435= 441= 447= 453= 464a
FAO_LENGTH	Own	358	464a	469.
FAO_OUTPUT_DSC	Own	360	460=	464a
FP	Built-in	938	947.	
FRAME_PTR	Local	942	947=	956= 956. 958. 961. 964.
GET1ST_	Macro	Lib05	107	108 194 253 294 295 414 417 592 598
		600	632	
GET2ND_	Unbound	107	108	194 253 294 295 414 417 592 598
		600	632	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	107		
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	107		
HS\$K_ACTION_ADVANCE_STATE	Literal	107		
HS\$K_ACTION_CHANGE_TABLE	Literal	107		
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	107		
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	107		
HS\$K_ACTION_DO_NOTHING	Literal	107		
HS\$K_ACTION_DUMMY_3	Literal	107		
HS\$K_ACTION_DUMMY_4	Literal	107		
HS\$K_ACTION_DUMMY_5	Literal	107		
HS\$K_ACTION_DUMMY_6	Literal	107		
HS\$K_ACTION_INIT_HS	Literal	107		
HS\$K_ACTION_INTERNAL_ERROR	Literal	107		
HS\$K_ACTION_LAST_ACTION	Literal	107		
HS\$K_ACTION_LOAD_ERROR	Literal	107		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	107		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	107		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	107		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	107		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	107		
HS\$K_ACTION_LOAD_START_COM	Literal	107		
HS\$K_ACTION_PREPARATION_ERROR	Literal	107		
HS\$K_ACTION_START_ERROR	Literal	107		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	107		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	107		
HS\$K_STATE_CHANGE_TABLE	Literal	107		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	107		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	107		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	107		
HS\$K_STATE_DUMMY_1	Literal	107		
HS\$K_STATE_DUMMY_2	Literal	107		
HS\$K_STATE_DUMMY_3	Literal	107		
HS\$K_STATE_DUMMY_4	Literal	107		
HS\$K_STATE_DUMMY_6	Literal	107		
HS\$K_STATE_INIT_HS	Literal	107		
HS\$K_STATE_INTERNAL_ERROR	Literal	107		
HS\$K_STATE_LAST_STATE	Literal	107		
HS\$K_STATE_LOAD_ERROR	Literal	107		
HS\$K_STATE_LOAD_GENERAL_COM	Literal	107		

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine K 2
 CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame K2
 V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 Page 74 (34)

Sequence 847

Symbol	Type	Defined	Referenced ...
HS\$K_STATE_LOAD_LOAD_COM	Literal	107	
HS\$K_STATE_LOAD_SELECT_COM	Literal	107	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	107	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	107	
HS\$K_STATE_LOAD_START_COM	Literal	107	
HS\$K_STATE_PREPARATION_ERROR	Literal	107	
HS\$K_STATE_START_ERROR	Literal	107	
INDEX	Local	944 945	
	Local	951 953	
IOSTATUS	Own	241 293=	294.
LENGTH	RoutForm	799 823	
	RoutForm	859 908	
LIB\$SPAWN	ExtRout	236 293c	
MEN\$BUILD_DDB	ExtRout Lib03	640c	
MEN\$DETERMINE_SUPPORT	ExtRout Lib03	671c	
MEN\$FUNCTEST_MENU	ExtRout Lib03	730c	
MEN\$GENERATE_ONLINE_ATTACH	ExtRout	80 573c	
MEN\$GT_AUTOSIZER_BEGIN	External Lib03	253a	
MEN\$GT_AUTOSIZER_END	External Lib03	632a	
MEN\$GT_FAILED_ONL_AUTOSIZER	Unbound	145	
	External Lib03	294a 295a 414a 417a	592a 598a 600a
MEN\$GT_MENUTEST_BEGIN	External Lib03	194a	
MEN\$K_HS_STATE_TABLE	Literal	107	
MEN\$K_MM_STATE_TABLE	Literal	107	
MEN\$K_TQ_STATE_TABLE	Literal	107 759	
MEN\$MENU_TEST_INTERNAL_ERROR	GlobRout	859 Lib03e	100f 823c 948a
MEN\$SPECIFY_SELECTNO	ExtRout Lib03	672c	
MENU\$K_EXIT_AUTOSIZER_ERROR	Unbound	147	
	Literal	107 294 295 414 417	592 598 600 854
MENU\$K_EXIT_INTERNAL_ERROR	Literal	107 824	
MENU\$K_EXIT_LAST_REASON	Literal	107	
MENU\$K_EXIT_OPERATOR_ABORT	Literal	107	
MENU\$K_EXIT_OPERATOR_STOP	Literal	107	
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	107	
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	107	
MM\$AUTOSIZER_ERROR	GlobRout	829 Lib03e	98f
MM\$BUILD_DDBS	GlobRout	608 Lib03e	88f
MM\$BUILD_HSTS	GlobRout	647 Lib03e	89f
MM\$CHANGE_TABLE	GlobRout	735 Lib03e	94f
MM\$DONE_INITS	GlobRout	677 Lib03e	91f
MM\$INTERNAL_ERROR	GlobRout	799 Lib03e	97f
MM\$K_ACTION_ADVANCE_STATE	Literal	107	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	107	
MM\$K_ACTION_BUILD_DDBS	Literal	107	
MM\$K_ACTION_BUILD_HSTS	Literal	107	
MM\$K_ACTION_CHANGE_TABLE	Literal	107	
MM\$K_ACTION_DONE_INITS	Literal	107	
MM\$K_ACTION_DO_NOTHING	Literal	107	
MM\$K_ACTION_DUMMY_3	Literal	107	
MM\$K_ACTION_DUMMY_4	Literal	107	
MM\$K_ACTION_DUMMY_5	Literal	107	
MM\$K_ACTION_DUMMY_6	Literal	107	
MM\$K_ACTION_DUMMY_7	Literal	107	

```

MM$K_ACTION_DUMMY_8 Literal 107
MM$K_ACTION_INTERNAL_ERROR Literal 107
MM$K_ACTION_LAST_ACTION Literal 107
MM$K_ACTION_LOAD_AUTOSIZER Literal 107
MM$K_ACTION_MENU_PROMPT Literal 107
MM$K_ACTION_PRINT_MENU Literal 107
MM$K_ACTION_PRINT_MENU_HEADING Literal 107
MM$K_ACTION_SET_FLAGS_AUTOSIZER Literal 107
MM$K_ACTION_START_AUTOSIZER Literal 107
MM$K_STATE_AUTOSIZER_ERROR Literal 107
MM$K_STATE_AUTOSIZER_RUNNING Literal 107
MM$K_STATE_BUILD_DDBS Literal 107
MM$K_STATE_BUILD_HSTS Literal 107
MM$K_STATE_CHANGE_TABLE Literal 107
MM$K_STATE_DONE_INITS Literal 107
MM$K_STATE_DUMMY_1 Literal 107
MM$K_STATE_DUMMY_2 Literal 107
MM$K_STATE_DUMMY_3 Literal 107
MM$K_STATE_DUMMY_5 Literal 107
MM$K_STATE_DUMMY_7 Literal 107
MM$K_STATE_DUMMY_8 Literal 107
MM$K_STATE_INTERNAL_ERROR Literal 107
MM$K_STATE_LAST_STATE Literal 107
MM$K_STATE_LOAD_AUTOSIZER Literal 107
MM$K_STATE_MENU_PROMPT Literal 107
MM$K_STATE_PRINT_MENU Literal 107
MM$K_STATE_PRINT_MENU_HEADING Literal 107
MM$K_STATE_SET_FLAGS_AUTOSIZER Literal 107
MM$K_STATE_START Literal 107
MM$K_STATE_START_AUTOSIZER Literal 107
MM$LOAD_AUTOSIZER GlobRout 200 Lib03e 84f
MM$MENU_PROMPT GlobRout 765 Lib03e 95f
MM$PRINT_MENU GlobRout 705 Lib03e 93f
MM$PRINT_MENU_HEADING GlobRout 170 Lib03e 83f
MM$SET_FLAGS_AUTOSIZER GlobRout 302 Lib03e 85f
MM$START_AUTOSIZER GlobRout 480 Lib03e 86f
MODNAM Macro Lib01 128
NAM KeyWForm 153 155 156 157 158
KeyWForm 161 163 164 165 166
NUL2ND_ Macro Lib05 107 108 194 2
600 632
OUT Own 240 289= 293a
OUTPUT_BUFF Own 528
OUTPUT_DESC Own 525 525=
OUTPUT_LEN Own 526
OUTPUT_SIZE Literal 522 525 528
PC Builtin 937
PR$_SID_TYP730 Literal Lib05 448
PR$_SID_TYP750 Literal Lib05 442
PR$_SID_TYP780 Literal Lib05 436
PR$_SID_TYP790 Literal Lib05 430
PR$_SID_TYP855 Literal Lib05 424
PROBEW Builtin 936 961

```

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine

CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746

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V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34)

Symbol	Type	Defined	Referenced ...
PROGRAM_COUNTER	Local	941	948= 953. 964=
RAB\$C_BID	Literal	Lib05 345	
RAB\$C_BLN	Literal	Lib05 345	
RAB\$C_SEQ	Literal	Lib05 345	
RAB\$L_FAB	Macro	Lib05 410	
RAB\$L_UBF	Macro	Lib05 411	
RMS\$EOF	Literal	Lib05 567	
RMS\$NORMAL	Literal	Lib05 570	
SCREEN\$K_CLEAR_SCREEN	Literal	108	
SCREEN\$K_COUNT_LINE	Literal	108	
SCREEN\$K_PRESS_RETURN	Literal	108	635
SCREEN\$K_PRESS_RETURN_MM	Literal	108	
SCREEN\$K_PRESS_RETURN_TM	Literal	108	
SCREEN\$K_TM_MSG	Literal	108	
SDL\$STARLET_CONCAT	Macro	Lib05 413	416 564 597 599
SDL\$STARLET_OPT	Macro	Lib05 413	416 564 597 599
SDL\$STARLET_REQ	Macro	Lib05 413	416 564 597 599
SI2	KeyWForm	161 163	
STATUS	Own	241 293a	295.
	Own	356 413=	414. 416= 417. 464= 465.
	Own	527 564=	573= 581. 592. 597= 598. 600.
STR	KeyWForm	153 155	158
SYSS\$CLOSE	ExtRout	597	597c
SYSS\$CONNECT	ExtRout	416	416c
SYSS\$ERASE	ExtRout	599	599c
SYSS\$FAO	ExtRout	464	464c
SYSS\$GET	ExtRout	564	564c
SYSS\$OPEN	ExtRout	413	413c
TQ\$K_ACTION_ADVANCE_STATE	Literal	107	
TQ\$K_ACTION_CHANGE_TABLE	Literal	107	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	107	
TQ\$K_ACTION_DO_NOTHING	Literal	107	
TQ\$K_ACTION_DUMMY_3	Literal	107	
TQ\$K_ACTION_DUMMY_4	Literal	107	
TQ\$K_ACTION_DUMMY_5	Literal	107	
TQ\$K_ACTION_GET_DDB	Literal	107	
TQ\$K_ACTION_INIT_TQ	Literal	107	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	107	
TQ\$K_ACTION_LAST_ACTION	Literal	107	
TQ\$K_STATE_CHANGE_TABLE	Literal	107	
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	107	
TQ\$K_STATE_DUMMY_1	Literal	107	
TQ\$K_STATE_DUMMY_2	Literal	107	
TQ\$K_STATE_DUMMY_3	Literal	107	
TQ\$K_STATE_DUMMY_4	Literal	107	
TQ\$K_STATE_DUMMY_5	Literal	107	
TQ\$K_STATE_GET_DDB	Literal	107	
TQ\$K_STATE_INIT_TQ	Literal	107	
TQ\$K_STATE_INTERNAL_ERROR	Literal	107	
TQ\$K_STATE_LAST_STATE	Literal	107	
TRUE	Literal	Lib03 729	
TYPE	Own	527	
TYPECODE	RoutForm	799	823.

RoutForm 859 907.

CROSS REFERENCE MAP

Line #	Event	File ...
--------	-------	----------

```

1 Source (start) DISK$DIAGPACK03:[DS.CRD.V020]CRDMMACT.B32;1
2 Module CRDMMACT
61 Library #1 DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
64 Library #2 DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
67 Library #3 DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
70 Library #4 DISK$DIAGPACK03:[DS.EVSBB.DEF]EVSBB_DEF.L32;1
73 Library #5 SYS$COMMON:[SYSLIB]LIB.L32;2
969 Eludom CRDMMACT

```

KEY TO REFERENCE TYPE FLAGS

```

. Fetch
= Store
c Routine call
a Address use
@ Indirect use
e External, external routine, or external literal declaration
f Forward or forward routine declaration
h Condition handler enabling
m Map declaration
u Undeclare declaration

```

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Processing	Mapped Time
DISK\$DIAGPACK03:(DS.LIBRARIES)DS.L32;17	671	1	0	46	00:00.2
DISK\$DIAGPACK03:(DS.LIBRARIES)DIAG.L32;30	923	7	0	94	00:00.2
DISK\$DIAGPACK03:(DS.CRD.V020)CRD.L32;1	486	59	12	62	00:00.1
DISK\$DIAGPACK03:(DS.EVSBB.DEF)EVSBB_DEF.L32;1	44	1	2	7	00:00.1
SYS\$COMMON:(SYSLIB)LIB.L32;2			18619	47	0 1000 00:04.6

ZZ-ENSAB-2.0 MEN\$Menu_Test_Internal_Error Routine B 3
CRDMMACT *** CRDMMACT Module 19-Sep-1985 16:56:02 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame B3 Sequence 851
V01.4 MEN\$Menu_Test_Internal_Error Routine 30-May-1985 12:44:16 [DS.CRD.V020]CRDMMACT.B32;1 (34) Page 78

; COMMAND QUALIFIERS

; BLISS CRDMMACT.B32/LIST=CRDMMACT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDMMACT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 1608 code + 963 data bytes

; Run Time: 01:15.8

; Elapsed Time: 02:55.1

; Lines/CPU Min: 767

; Lexemes/CPU-Min: 68099

; Memory Used: 385 pages

; Compilation Complete

```
: 0001 0 *TITLE '*** CRDPTABLE Module'
: 0002 0 MODULE CRDPTABLE ( ! Acces the Ptables
: 0003 0 IDENT = '01-01'
: 0004 0 ) =
: 0005 0 !**
: 0006 0 ! COPYRIGHT (c) 1980, 1981
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 ! REMAIN IN DEC.
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: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 ! -
```

ZZ-ENSAB-2.0 *** CRDPTABLE Module D 3
 CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1 746 Fiche 5 Frame D3 Sequence 853
 01-01 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 (2) Page 2

```

: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the CRD-Loadable image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : Access the Resident-DS's PTables.
: 0032 0 :
: 0033 0 : Author:
: 0034 0 :
: 0035 0 : Jack Stansbury
: 0036 0 :
: 0037 0 : Creation Date:
: 0038 0 :
: 0039 0 : May 4, 1982
: 0040 0 :
: 0041 0 : Version:
: 0042 0 :
: 0043 0 : 6.7
: 0044 0 :
: 0045 0 : Modified By:
: 0046 0 :
: 0047 0 : 01 Jack Stansbury, Version 6.9, August 18, 1982
: 0048 0 : Added the CRD$Get_Device_Name routine that will return a pointer to
: 0049 0 : an ASCII device name string, given a pointer to a PTable.
: 0050 0 : --

```

```
; 0051 0 xSBTTL 'Libraries'
; 0052 1 BEGIN      ! Begin the CRDPTABLE module
; 0053 1
; 0054 1 LIBRARY
; 0055 1 '$CRD';    ! Use CRD.L32 first
; 0056 1
; 0057 1 LIBRARY
; 0058 1 '$DS';     ! Use Ds.L32 second
; 0059 1
; 0060 1 LIBRARY
; 0061 1 '$Diag';   ! Use Diag.L32 third
; 0062 1
; 0063 1 LIBRARY
; 0064 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```
; 0065 1 xSBTTL 'Table of Contents'
; 0066 1
; 0067 1 FORWARD ROUTINE
; 0068 1 CRD$Find_PTable : ADDRESSING_MODE (LONG_RELATIVE),
; 0069 1 ! Find a PTable containing a certain device name
; 0070 1
; 0071 1 CRD$Get_Device_Name : ADDRESSING_MODE (LONG_RELATIVE), [[01]]
; 0072 1 ! Return a pointer to an ASCII device name string [[01]]
; 0073 1
; 0074 1 CRD$Print_PTables : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0075 1 ! Print information in the PTables
```

ZZ-ENSAB-2.0 Included Macros and Literals G 3
CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame G3 Sequence 856
01-01 Included Macros and Literals 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 Page 5 (5)

; 0076 1 xSBTTL 'Included Macros and Literals'
; 0077 1
; 0078 1 \$CRD_Literals; ! Define the CRD literals

```
; 0079 1 xSBTTL 'Psect Definitions'
; 0080 1
; 0081 1 PSECT
; 0082 1     PLIT     = Data (NOEXECUTE,     SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0083 1
; 0084 1 PSECT
; 0085 1     CODE     = Code (   EXECUTE,     SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0086 1
; 0087 1 PSECT
; 0088 1     OWN     = Work (NOEXECUTE, NOSHARE,     WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0089 1
; 0090 1 PSECT
; 0091 1     GLOBAL - Work (NOEXECUTE, NOSHARE,     WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```



```

                                I 3
ZZ-ENSAB-2.0  Module-Global Static Storage 19-Sep-1985  Fiche 5  Frame 13  Sequence 858
CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Page 7
01-01 Module-Global Static Storage 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 (7)

; 0092 1 xSBTTL 'Module-Global Static Storage'
; 0093 1
; 0094 1 ModNam ('CRDPTABLE'); ! Module name for ErrSup macro
```

ZZ-ENSAB-2.0 CRD\$Find_PTable Routine J 3
 CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame J3 Sequence 859
 01-01 CRD\$Find_PTable Routine 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 (8)

```

: 0095 1 xSBTTL 'CRD$Find_PTable Routine'
: 0096 1
: 0097 1 GLOBAL ROUTINE CRD$Find_PTable (Device_Name) =
: 0098 1
: 0099 1 !*
: 0100 1 | Functional Description:
: 0101 1 |
: 0102 1 | Find a PTable containg a device called Device_Name.
: 0103 1 |
: 0104 1 | Formal Input Parameters:
: 0105 1 |
: 0106 1 | Device_Name: A pointer to an ASCIC string.
: 0107 1 |
: 0108 1 | Formal Output Parameters:
: 0109 1 |
: 0110 1 | None
: 0111 1 |
: 0112 1 | Side Effects:
: 0113 1 |
: 0114 1 | None
: 0115 1 |
: 0116 1 | Completion Codes:
: 0117 1 |
: 0118 1 | 0    No PTable was found containg this Device_Name.
: 0119 1 | Address - Address contains the address of the PTable.
: 0120 1 | --

```

```

: 0121 2 BEGIN      ! Routine CRD$Find_PTable
: 0122 2 BIND
: 0123 2   Numb_PTable_Entries = (.CRD$GA_PTable),
: 0124 2   PTable_Table      = (.CRD$GA_PTable + 4) : VECTOR [, LONG];
: 0125 2
: 0126 2 LOCAL
: 0127 2   PTable_Table_Index, ! Index into the PTable_Table (table)
: 0128 2   PTable_Ptr, ! A pointer to a ptable
: 0129 2   PTable_Device_Name, ! A pointer to an ASCII string
: 0130 2   PTable_Device_Name_Len, ! The length of the above ASCII string
: 0131 2   PTable_Device_Name_Desc; ! A descriptor of a device name - in the PTable.
: 0132 2
: 0133 2 MAP
: 0134 2   Device_Name : REF VECTOR [, BYTE];
: 0135 2   ! Reference Device_Name as a vector of bytes
: 0136 2
: 0137 2 IF (.Device_Name [0] EQL 0) THEN
: 0138 2   !+
: 0139 2   ! The device name is null - i.e., no count byte. Return the 0 address.
: 0140 2   !-
: 0141 2   RETURN (0);
: 0142 2
: 0143 2 PTable_Table_Index = .Numb_PTable_Entries - 1;
: 0144 2   ! Start at the last PTable address
: 0145 2
: 0146 2 !+
: 0147 2 ! Search through the list of PTable addresses to find one that contains a device name
: 0148 2 ! equal to Device_Name. Keep looking until a zero PTable pointer is found. This signifies
: 0149 2 ! the end of the PTable entries. If a match is found, return a pointer to this PTable.
: 0150 2 !-
: 0151 2
: 0152 2 WHILE ((PTable_Ptr = .PTable_Table [.PTable_Table_Index]) NEQ 0) DO
: 0153 3 BEGIN
: 0154 3 BIND
: 0155 3   PTable = (.PTable_Ptr) : $DS_HPO_DECL ();
: 0156 3
: 0157 3 !+
: 0158 3 ! Get the device name from the table and get rid of any leading underscores.
: 0159 3 !-
: 0160 3
: 0161 3 PTable_Device_Name_Desc = PTable [HP$Q_Device];
: 0162 4 BEGIN
: 0163 4 MAP
: 0164 4   PTable_Device_Name_Desc : REF VECTOR [2, LONG];
: 0165 4
: 0166 4 PTable_Device_Name_Len = .PTable_Device_Name_Desc [0];
: 0167 4 PTable_Device_Name     = .PTable_Device_Name_Desc [1];
: 0168 4
: 0169 5 BEGIN
: 0170 5 MAP
: 0171 5   PTable_Device_Name : REF VECTOR [, BYTE];
: 0172 5
: 0173 5 WHILE (.PTable_Device_Name [0] EQL xC'_' ) DO
: 0174 6 BEGIN
: 0175 6   PTable_Device_Name - PTable_Device_Name [1];

```

```

; 0176 6      PTable_Device_Name_Len = .PTable_Device_Name_Len - 1;
; 0177 5      END;
; 0178 4      END;
; 0179 3      END;
; 0180 3
; 0181 3      !*
; 0182 3      ! Now, Ptable_Device_Name      = address of the device name string in the PTable
; 0183 3      !      PTable_Device_Name_Len = length of the device name string in the PTable
; 0184 3      ! Compare the two strings. If equal, return address. If not, keep looking.
; 0185 3      !-
; 0186 3
; 0187 4      IF (CH$EQL (.PTable_Device_Name_Len, CH$PTR (.PTable_Device_Name),
; 0188 4          .Device_Name [0],      CH$PTR (Device_Name [1])))
; 0189 3      THEN
; 0190 4          RETURN (.PTable_Ptr)
; 0191 3      ELSE
; 0192 3          PTable_Table_Index = .PTable_Table_Index - 1;
; 0193 3          ! Check the next ptable pointer
; 0194 2      END;
; 0195 2
; 0196 2      RETURN (0);      ! Return a 0 address
; 0197 1      END;      ! Routine CRD$Find_PTable

```

```

.TITLE CRDPTABLE *** CRDPTABLE Module
.IDENT \01-01\

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

45 4C 42 41 54 50 44 52 43 09 0000 P.AAA: .ASCII <9>\CRDPTABLE\      ;

```

```

$MODULE=      P.AAA
.EXTRN CRD$FIND_PTABLE
.EXTRN CRD$GET_DEVICE_NAME
.EXTRN CRD$PRINT_PTABLES
.EXTRN CRD$GA_PTABLE

```

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

```

07FC 0000 .ENTRY CRD$FIND_PTABLE, Save R2,R3,R4,R5,R6,R7,R8,-; 0097
R9,R10 ;
5A 00000000G EF 04 C1 00002 ADDL3 #4, CRD$GA_PTABLE, R10 ; 0124
55 04 AC D0 0000A MOVL DEVICE_NAME, R5 ; 0137
65 95 0000E TSTB (R5) ;
38 13 00010 BEQL 6$ ;
54 00000000G FF 01 C3 00012 SUBL3 #1, aCRD$GA_PTABLE, PTABLE_TABLE_INDEX ; 0143
28 11 0001A BRB 5$ ; 0188
56 58 D0 0001C 1$: MOVL PTABLE_PTR, PTABLE_DEVICE_NAME_DESC ; 0161
59 66 D0 0001F MOVL (PTABLE_DEVICE_NAME_DESC), - ; 0166
PTABLE_DEVICE_NAME_LEN ;
57 04 A6 D0 00022 MOVL 4(PTABLE_DEVICE_NAME_DESC), - ; 0167
PTABLE_DEVICE_NAME ;
04 11 00026 BRB 3$ ; 0173
57 D6 00028 2$: INCL PTABLE_DEVICE_NAME ; 0175
59 D7 0002A DECL PTABLE_DEVICE_NAME_LEN ; 0176

```

ZZ-ENSAB-2.0 CRD\$Find_PTable Routine M 3
 CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame M3
 01-01 CRD\$Find_PTable Routine 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 Page 11 Sequence 862

```

5F 8F 67 91 0002C 3$: CMPB (PTABLE_DEVICE_NAME), #95 ; 0173
F6 13 00030 BEQL 2$ ;
50 65 9A 00032 MOVZBL (R5), R0 ; 0188
50 00 67 59 2D 00035 CMPC5 PTABLE_DEVICE_NAME_LEN, - ;
01 A5 0003A (PTABLE_DEVICE_NAME), #0, R0, 1(R5) ;
04 12 0003C BNEQ 4$ ;
50 58 D0 0003E MOVL PTABLE_PTR, R0 ; 0190
04 00041 RET ;
54 D7 00042 4$: DECL PTABLE_TABLE_INDEX ; 0192
58 6A44 D0 00044 5$: MOVL (R10)[PTABLE_TABLE_INDEX], PTABLE_PTR ; 0152
D2 12 00048 BNEQ 1$ ;
50 D4 0004A 6$: CLRL R0 ; 0197
04 0004C RET ;

```

; Routine Size: 77 bytes, Routine Base: CODE + 0000

```

: 0198 1 xSBTTL 'CRD$Get_Device_Name Routine'
: 0199 1
: 0200 1 GLOBAL ROUTINE CRD$Get_Device_Name (PTable_Ptr) =      ![[01]]
: 0201 1
: 0202 1 !**
: 0203 1 ! Functional Description:
: 0204 1 !
: 0205 1 ! Construct an ASCII string that contains the device name found in the PTable pointed
: 0206 1 ! to by PTable_Ptr.
: 0207 1 !
: 0208 1 ! Formal Input Parameters:
: 0209 1 !
: 0210 1 ! PTable_Ptr : A pointer to a PTable.
: 0211 1 !
: 0212 1 ! Formal Output Parameters:
: 0213 1 !
: 0214 1 ! None
: 0215 1 !
: 0216 1 ! Side Effects:
: 0217 1 !
: 0218 1 ! None
: 0219 1 !
: 0220 1 ! Completion Codes:
: 0221 1 !
: 0222 1 ! A pointer to the device name ASCII string.
: 0223 1 ! --

```

```

; 0224 2 BEGIN      ! Routine CRD$Get_Device_Name
; 0225 2 OWN
; 0226 2   Device_Name : VECTOR [12, BYTE];
; 0227 2
; 0228 2 LOCAL
; 0229 2   PTable_Device_Name_Desc,
; 0230 2   Device_Name_Len,
; 0231 2   Device_Name_Ptr;
; 0232 2
; 0233 2 BIND
; 0234 2   PTable = (.PTable_Ptr) : $DS_HPO_DECL ();
; 0235 2
; 0236 2   PTable_Device_Name_Desc = PTable [HP$Q_Device];
; 0237 2
; 0238 3 BEGIN
; 0239 3 MAP
; 0240 3   PTable_Device_Name_Desc : REF VECTOR [2, LONG];
; 0241 3
; 0242 3   Device_Name_Len = .PTable_Device_Name_Desc [0];
; 0243 3   Device_Name_Ptr = .PTable_Device_Name_Desc [1];
; 0244 3
; 0245 4 BEGIN
; 0246 4 MAP
; 0247 4   Device_Name_Ptr : REF VECTOR [, BYTE];
; 0248 4
; 0249 4   WHILE (.Device_Name_Ptr [0] EQL %C'_') DO
; 0250 5 BEGIN
; 0251 5   Device_Name_Ptr = Device_Name_Ptr [1];
; 0252 5   Device_Name_Len = .Device_Name_Len - 1;
; 0253 4 END;
; 0254 3 END;
; 0255 3
; 0256 3   Device_Name [0] = .Device_Name_Len;
; 0257 3
; 0258 3 CH$MOVE (
; 0259 3   .Device_Name_Len,
; 0260 3   .Device_Name_Ptr,
; 0261 3   Device_Name [1]
; 0262 3 );
; 0263 2 END;
; 0264 2
; 0265 2 RETURN (Device_Name); ! Return the address of the ASCII string.
; 0266 1 END;      ! Routine CRD$Get_Device_Name      ![01]

```

.PSECT WORK,NOEXE,2

00000 DEVICE_NAME:
.BLKB 12

.PSECT CODE,NOWRT, SHR, PIC,2

C 4

ZZ-ENSAB-2.0 CRD\$Get_Device_Name Routine 19-Sep-1985 Fiche 5 Frame C4 Sequence 865
 CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Page 14
 01-01 CRD\$Get_Device_Name Routine 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 (11)

```

    003C 00000 .ENTRY CRD$GET_DEVICE_NAME, Save R2,R3,R4,R5 ; 0200
50 04 AC D0 00002 MOVL PTABLE_PTR, PTABLE_DEVICE_NAME_DESC ; 0236
51 60 D0 00006 MOVL (PTABLE_DEVICE_NAME_DESC), DEVICE_NAME_LEN ; 0242
50 04 A0 D0 00009 MOVL 4(PTABLE_DEVICE_NAME_DESC), DEVICE_NAME_PTR ; 0243
04 11 0000D BRB 2$ ; 0249
50 D6 0000F 1$: INCL DEVICE_NAME_PTR ; 0251
51 D7 00011 DECL DEVICE_NAME_LEN ; 0252
SF 8F 60 91 00013 2$: CMPB (DEVICE_NAME_PTR), #95 ; 0249
F6 13 00017 BEQL 1$ ;
00000000' EF 51 90 00019 MOVB DEVICE_NAME_LEN, DEVICE_NAME ; 0256
00000000' EF 60 51 28 00020 MOVC3 DEVICE_NAME_LEN, (DEVICE_NAME_PTR), - ; 0261
    DEVICE_NAME+1 ;
50 00000000' EF 9E 00028 MOVAB DEVICE_NAME, R0 ; 0265
04 0002F RET ; 0266
  
```

; Routine Size: 48 bytes, Routine Base: CODE + 004D


```

: 0267 1 xSBTTL 'CRD$Print_PTables Routine'
: 0268 1
: 0269 1 GLOBAL ROUTINE CRD$Print_PTables : NOVALUE =
: 0270 1
: 0271 1 !**
: 0272 1 ! Functional Description:
: 0273 1 !
: 0274 1 ! Print the information in the PTables.
: 0275 1 !
: 0276 1 ! Formal Input Parameters:
: 0277 1 !
: 0278 1 ! None
: 0279 1 !
: 0280 1 ! Formal Output Parameters:
: 0281 1 !
: 0282 1 ! None
: 0283 1 !
: 0284 1 ! Side Effects:
: 0285 1 !
: 0286 1 ! None
: 0287 1 !
: 0288 1 ! Completion Codes:
: 0289 1 !
: 0290 1 ! None
: 0291 1 !

```

```

; 0292 2 BEGIN      ! Routine CRD$Print_PTables
; 0293 2 BIND
; 0294 2   Numb_PTable_Addresses = (.CRD$GA_PTable),
; 0295 2   PTable_Addresses     = (.CRD$GA_PTable + 4) : VECTOR [, LONG];
; 0296 2
; 0297 2 LOCAL
; 0298 2   PTable_Index, ! Index into the PTable_Addresses table
; 0299 2   PTable_Ptr; ! A pointer to a ptable
; 0300 2
; 0301 2   PTable_Index = .Numb_PTable_Addresses - 1;
; 0302 2   ! Start at the last PTable address
; 0303 2
; 0304 2 WHILE ((PTable_Ptr = .PTable_Addresses [.PTable_Index]) NEQ 0) DO
; 0305 3   BEGIN
; 0306 3   BIND
; 0307 3   PTable = (.PTable_Ptr) : $DS_HPO_DECL (),
; 0308 3
; 0309 3   Output_0 = $ASCIC ('The !UL PTable is:!/'),
; 0310 3   Output_1 = $ASCIC ('** Device Name: !AS!/'),
; 0311 3   Output_2 = $ASCIC ('** Address: !XL(X)!/'),
; 0312 3   Output_3 = $ASCIC ('** Size: !UW!/'),
; 0313 3   Output_4 = $ASCIC ('** Flags: !UB!/'),
; 0314 3   Output_5 = $ASCIC ('** Drive: !UB!/'),
; 0315 3   Output_6 = $ASCIC ('** Link: !XL(X)!/'),
; 0316 3   Output_7 = $ASCIC ('** Type: !AC!/'),
; 0317 3   Output_8 = $ASCIC ('!/');
; 0318 3
; 0319 3   $CRD_Print (Output_0, .PTable_Index);
; 0320 3   $CRD_Print (Output_1, PTable [HP$Q_Device]);
; 0321 3   $CRD_Print (Output_2, .PTable_Ptr);
; 0322 3   $CRD_Print (Output_3, .PTable [HP$W_Size]);
; 0323 3   $CRD_Print (Output_4, .PTable [HP$B_Refcl]);
; 0324 3   $CRD_Print (Output_5, .PTable [HP$B_Drive]);
; 0325 3   $CRD_Print (Output_6, .PTable [HP$A_Link]);
; 0326 3   $CRD_Print (Output_7, PTable [HP$T_Type]);
; 0327 3   $CRD_Print (Output_8);
; 0328 3
; 0329 3   PTable_Index = .PTable_Index - 1;
; 0330 3   ! Go to the next ptable and print it
; 0331 2   END;
; 0332 1 END;      ! Routine CRD$Print_PTables

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

65 6C 62 61 54 50 20 4C 55 21 20 65 68 54 14 0000A P.AAB: .ASCII <20>\The !UL PTable is:!/ \ ;
      2F 21 3A 73 69 20 00019 ;
65 6D 61 4E 20 65 63 69 76 65 44 20 2A 2A 17 0001F P.AAC: .ASCII <23>\** Device Name: !AS!/ \ ;
      2F 21 2E 53 41 21 2E 20 3A 0002E ;
20 20 20 3A 73 73 65 72 64 64 41 20 2A 2A 18 00037 P.AAD: .ASCII <24>\** Address: !XL(X)!/ \ ;
      2F 21 29 58 28 4C 58 21 20 20 00046 ;
20 20 20 20 20 20 3A 65 7A 69 53 20 2A 2A 15 00050 P.AAE: .ASCII <21>\** Size: !UW!/ \ ;
      2F 21 57 55 21 20 20 0005F ;
20 20 20 20 20 3A 73 67 61 6C 46 20 2A 2A 15 00066 P.AAF: .ASCII <21>\** Flags: !UB!/ \ ;

```

2F 21 42 55 21 20 20 00075 ;
 20 20 20 20 20 3A 65 76 69 72 44 20 2A 2A 15 0007C P.AAG: .ASCII <21>** Drive: !UB!/\ ;
 2F 21 42 55 21 20 20 0008B ;
 20 20 20 20 20 20 3A 6B 6E 69 4C 20 2A 2A 18 00092 P.AAH: .ASCII <24>** Link: !XL(X)!/\ ;
 2F 21 29 58 28 4C 58 21 20 20 000A1 ;
 20 20 20 20 20 20 3A 65 70 79 54 20 2A 2A 17 000AB P.AAI: .ASCII <23>** Type: .!AC.!/\ ;
 2F 21 2E 43 41 21 2E 20 20 000BA ;
 2F 21 02 000C3 P.AAJ: .ASCII <2>\!/\ ;

OUTPUT_0= P.AAB
 OUTPUT_1= P.AAC
 OUTPUT_2= P.AAD
 OUTPUT_3= P.AAE
 OUTPUT_4= P.AAF
 OUTPUT_5= P.AAG
 OUTPUT_6= P.AAH
 OUTPUT_7= P.AAI
 OUTPUT_8= P.AAJ

.EXTRN CRD\$PRINT

.PSECT CODE,NOWRT, SHR, PIC,2

001C 00000 .ENTRY CRD\$PRINT_PTABLES, Save R2,R3,R4 ; 0269
 54 00000000G EF 04 C1 00002 ADDL3 #4, CRD\$GA_PTABLE, R4 ; 0295
 53 00000000G FF 01 C3 0000A SUBL3 #1, aCRD\$GA_PTABLE, PTABLE_INDEX ; 0301
 00B3 31 00012 BRW 2\$; 0304
 53 DD 00015 1\$: PUSHL PTABLE_INDEX ; 0319
 00000000' EF 9F 00017 PUSHAB OUTPUT_0 ;
 01 DD 0001D PUSHL #1 ;
 1A DD 0001F PUSHL #26 ;
 00000000G FF 04 FB 00021 CALLS #4, aCRD\$PRINT ;
 52 DD 00028 PUSHL PTABLE_PTR ; 0320
 00000000' EF 9F 0002A PUSHAB OUTPUT_1 ;
 01 DD 00030 PUSHL #1 ;
 1A DD 00032 PUSHL #26 ;
 00000000G FF 04 FB 00034 CALLS #4, aCRD\$PRINT ;
 52 DD 0003B PUSHL PTABLE_PTR ; 0321
 00000000' EF 9F 0003D PUSHAB OUTPUT_2 ;
 01 DD 00043 PUSHL #1 ;
 1A DD 00045 PUSHL #26 ;
 00000000G FF 04 FB 00047 CALLS #4, aCRD\$PRINT ;
 7E 08 A2 3C 0004E MOVZWL 8(PTABLE_PTR), -(SP) ; 0322
 00000000' EF 9F 00052 PUSHAB OUTPUT_3 ;
 01 DD 00058 PUSHL #1 ;
 1A DD 0005A PUSHL #26 ;
 00000000G FF 04 FB 0005C CALLS #4, aCRD\$PRINT ;
 7E 0A A2 9A 00063 MOVZBL 10(PTABLE_PTR), -(SP) ; 0323
 00000000' EF 9F 00067 PUSHAB OUTPUT_4 ;
 01 DD 0006D PUSHL #1 ;
 1A DD 0006F PUSHL #26 ;
 00000000G FF 04 FB 00071 CALLS #4, aCRD\$PRINT ;
 7E 08 A2 9A 00078 MOVZBL 11(PTABLE_PTR), -(SP) ; 0324
 00000000' EF 9F 0007C PUSHAB OUTPUT_5 ;
 01 DD 00082 PUSHL #1 ;
 1A DD 00084 PUSHL #26 ;

```

00000000G FF 04 FB 00086 CALLS #4, aCRD$PRINT ;
20 A2 DD 0008D PUSHL 32(PTABLE_PTR) ; 0325
00000000' EF 9F 00090 PUSHAB OUTPUT_6 ;
01 DD 00096 PUSHL #1 ;
1A DD 00098 PUSHL #26 ;
00000000G FF 04 FB 0009A CALLS #4, aCRD$PRINT ;
26 A2 9F 000A1 PUSHAB 38(PTABLE_PTR) ; 0326
00000000' EF 9F 000A4 PUSHAB OUTPUT_7 ;
01 DD 000AA PUSHL #1 ;
1A DD 000AC PUSHL #26 ;
00000000G FF 04 FB 000AE CALLS #4, aCRD$PRINT ;
00000000' EF 9F 000B5 PUSHAB OUTPUT_8 ; 0327
01 DD 000BB PUSHL #1 ;
1A DD 000BD PUSHL #26 ;
00000000G FF 03 FB 000BF CALLS #3, aCRD$PRINT ;
53 D7 000C6 DECL PTABLE_INDEX ; 0329
52 6443 D0 000C8 2$: MOVL (R4)[PTABLE_INDEX], PTABLE_PTR ; 0304
03 13 000CC BEQL 3$ ;
FF44 31 000CE BRW 1$ ;
04 000D1 3$: RET ; 0332

```

; Routine Size: 210 bytes, Routine Base: CODE + 007D

```

: 0333 1 END      ! End of CRDPTABLE module
: 0334 0 ELUDOM

```

```

:
: PSECT SUMMARY
:
: Name      Bytes      Attributes
:
: DATA      198 NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
: CODE       335 NOVEC,NOWRT, RD , EXE,  SHR, LCL, REL, CON, PIC,ALIGN(2)
: WORK       12  NOVEC,  WRT,  RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

```

Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib03 309	310	311 312 313 314 315 316 317
\$CRD_LITERALS	Macro	Lib01 78		
\$CRD_PRINT	Macro	Lib01 319	320 321 322 323 324 325 326 327	
\$DS_HPO_DECL	Macro	Lib03 155	234 307	
\$DS_HPO_F	Fieldset	Lib03 155	234 307	
\$DS_TYPEDEF	Macro	Lib03 319	320 321 322 323 324 325 326 327	
\$EQLST	Macro	Lib04 78	319 320 321 322 323 324 325 326 327	
\$ER	Comptime	94		
\$MODULE	Bind	94		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal		78	
AUTOSK_EXIT_CONTROL_C	Literal		78	
AUTOSK_EXIT_DUMMY_2	Literal		78	
AUTOSK_EXIT_DUMMY_3	Literal		78	
AUTOSK_EXIT_ERRORS_COMPLETE	Literal		78	
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal		78	
AUTOSK_EXIT_INTERNAL_ERROR	Literal		78	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal		78	
AUTOSK_EXIT_LAST_REASON	Literal		78 78	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal		78	
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal		78	
AUTOSK_EXIT_NOERRORS_PREP	Literal		78	
CRD\$FIND_PTABLE	GlobRout	97 Lib01e	68f	
CRD\$GA_PTABLE	External	Lib01 123.	124. 294. 295.	
CRD\$GET_DEVICE_NAME	GlobRout	200 Lib01e	71f	
CRD\$K_ACTION_EQL_DO_NOTHING	Literal		78	
CRD\$K_ACTION_RANGE_ERROR	Literal		78	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal		78	
CRD\$K_ADVANCE_GENERAL_COM	Literal		78	
CRD\$K_ADVANCE_STATE	Literal		78	
CRD\$K_ALLOCATION_ERROR	Literal		78	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal		78	
CRD\$K_AUTOSIZER_ERROR	Literal		78	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal		78	

ZZ-ENSAB-2.0 CRD\$Print_PTables Routine I 4
 CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame 14
 01-01 CRD\$Print_PTables Routine 3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32;1 (14) Page 20

Sequence 871

Symbol	Type	Defined	Referenced ...
CRD\$K_BAD_ACTION_NUMBER	Literal	78	
CRD\$K_BAD_TYPECODE_ERROR	Literal	78	
CRD\$K_BASE_SYSTEM_IDC	Literal	78	
CRD\$K_BASE_SYSTEM_LESI	Literal	78	
CRD\$K_BASE_SYSTEM_NULL	Literal	78	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	78	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	78	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	78	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	78	
CRD\$K_CRD_INITIALIZATION	Literal	78	
CRD\$K_CREATE_HST	Literal	78	
CRD\$K_DATA_LENGTH_ERROR	Literal	78	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	78	78
CRD\$K_DDB_BLINK	Literal	78	
CRD\$K_DDB_FLINK	Literal	78	
CRD\$K_DDB_LAST_ENTRY	Literal	78	
CRD\$K_DDB_MEMORY_SIZE	Literal	78	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	78	78
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	78	78
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	78	78
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	78	78
CRD\$K_DDB_PTABLE_ENTRY	Literal	78	
CRD\$K_DDB_STATUS	Literal	78	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	78	78
CRD\$K_DEVICE_NAME	Literal	78	
CRD\$K_DIAGNOSTIC_ERROR	Literal	78	
CRD\$K_DIAGNOSTIC_NAME	Literal	78	
CRD\$K_DONE_GENERAL_COMS	Literal	78	78
CRD\$K_DO_NOTHING	Literal	78	
CRD\$K_DUMMY_10	Literal	78	
CRD\$K_DUMMY_11	Literal	78	
CRD\$K_DUMMY_12	Literal	78	
CRD\$K_DUMMY_13	Literal	78	
CRD\$K_DUMMY_3	Literal	78	
CRD\$K_DUMMY_4	Literal	78	
CRD\$K_DUMMY_5	Literal	78	
CRD\$K_DUMMY_6	Literal	78	
CRD\$K_DUMMY_7	Literal	78	
CRD\$K_DUMMY_8	Literal	78	
CRD\$K_DUMMY_9	Literal	78	
CRD\$K_EXIT_CRD	Literal	78	
CRD\$K_HOOK_POINT	Literal	78	
CRD\$K_HS_INTERNAL_ERROR	Literal	78	78
CRD\$K_IDC_EVDLB	Literal	78	
CRD\$K_IDC_EVDLC	Literal	78	
CRD\$K_IDC_EVDLD	Literal	78	
CRD\$K_IDC_EVRAD_0	Literal	78	
CRD\$K_IDC_EVRAD_1	Literal	78	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	78	78
CRD\$K_INTERNAL_ERROR	Literal	78	
CRD\$K_LAST_ACTION_ROUTINE	Literal	78	78
CRD\$K_LAST_ENTRY	Literal	78	
CRD\$K_LAST_FUNCTION	Literal	78	

Symbol	Type	Defined	Referenced ...
CRD\$K_LAST_HOOK_POINT	Literal	78	
CRD\$K_LAST_INTERNAL_ERROR	Literal	78	
CRD\$K_LAST_TYPE	Literal	78	
CRD\$K_LESI_ENWCA	Literal	78	
CRD\$K_LESI_EVRMB_0	Literal	78	
CRD\$K_LESI_EVRMB_1	Literal	78	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	78	
CRD\$K_LEVEL_4_PASSED	Literal	78	
CRD\$K_LOAD_AUTOSIZER	Literal	78	
CRD\$K_LOAD_ERROR	Literal	78	
CRD\$K_LOAD_GENERAL_COM	Literal	78	
CRD\$K_LOAD_LOAD_COM	Literal	78	
CRD\$K_LOAD_SELECT_COM	Literal	78	
CRD\$K_LOAD_SET_EVENT_COM	Literal	78	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	78	
CRD\$K_LOAD_START_COM	Literal	78	
CRD\$K_LOAD_SUP_FILE	Literal	78	
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CRD\$K_NEW_LINE	Literal	78	
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CRD\$K_SET_EVENT_ARGS	Literal	78	
CRD\$K_SET_FLAGS_ARGS	Literal	78	
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CRD\$K_START_AUTOSIZER	Literal	78	
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CRD\$K_STAR_LINE	Literal	78	
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CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	78	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	78	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	78	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	78	
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CRD\$K_STATE_EXIT_CRD	Literal	78	
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CRD\$K_STATE_LEVEL_4_PASSED	Literal	78		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	78		
CRD\$K_STATE_LOAD_ERROR	Literal	78		
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CRD\$K_STATE_LOAD_LOAD_COM	Literal	78		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	78		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	78		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	78		
CRD\$K_STATE_LOAD_START_COM	Literal	78		
CRD\$K_STATE_PREPARATION_ERROR	Literal	78		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	78		
CRD\$K_STATE_START	Literal	78		
CRD\$K_STATE_START_AUTOSIZER	Literal	78		
CRD\$K_STATE_START_ERROR	Literal	78		
CRD\$K_TEST_START_TEXT	Literal	78		
CRD\$K_TQ_INTERNAL_ERROR	Literal	78		
CRD\$K_TYPECODE	Literal	78		
CRD\$K_UDA_0_EVDLB	Literal	78		
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CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	78		
CRD\$K_UDA_1_EVDLB	Literal	78		
CRD\$K_UDA_1_EVDLC	Literal	78		
CRD\$K_UDA_1_EVDLD	Literal	78		
CRD\$K_UDA_1_EVRLA_0	Literal	78		
CRD\$K_UDA_1_EVRLA_1	Literal	78		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	78		
CRD\$K_UDA_2_EVDLB	Literal	78		
CRD\$K_UDA_2_EVDLC	Literal	78		
CRD\$K_UDA_2_EVDLD	Literal	78		
CRD\$K_UDA_2_EVRLA_0	Literal	78		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	78		
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CRD\$K_UDA_3_EVDLD	Literal	78		
CRD\$K_UDA_3_EVRLA_0	Literal	78		
CRD\$K_UDA_3_EVRLA_1	Literal	78		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	78		
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DEVICE_NAME	RoutForm	97	134m	137a. 188a.
Own	226	256-	261-	265
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DS\$K_TYPE_COMMAND_ERR	Literal		319	
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DS\$K_TYPE_COMMAND_OUT	Literal		319	
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DS\$K_TYPE_CRD_AUTOTEST	Literal		319	319
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DS\$K_TYPE_DS_PROMPT	Literal		319	
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DS\$K_TYPE_ERRDEV	Literal		319	
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DS\$K_TYPE_ERRHARD	Literal		319	
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DS\$K_TYPE_ERROR_BODY	Literal		319	
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DS\$K_TYPE_ERRPREP	Literal		319	
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DS\$K_TYPE_ERRSYS	Literal		319	
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DS\$K_TYPE_ERR_HALT	Literal	319		
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DS\$K_TYPE_EXCEPTION_HEAD	Literal	319		
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DS\$K_TYPE_FIRST_PASS	Literal	319		
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DS\$K_TYPE_GENERAL	Literal	319		
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DS\$K_TYPE_GENERAL_ERROR	Literal	319		
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	Literal	326		
	Literal	327		
DS\$K_TYPE_NO_TESTS	Literal	319		
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	Literal	321		
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DS\$K_TYPE_PARAM_ERROR	Literal	319		
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DS\$K_TYPE_PROGRAM_END	Literal	319		
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DS\$K_TYPE_PROGRAM_INFO	Literal	319		
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DS\$K_TYPE_QIO_INVADP	Litera	319		
	Literal	320		

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	Literal	321	
	Literal	322	
	Literal	323	
	Literal	324	
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	Literal	326	
	Literal	327	
DS\$K_TYPE_QIO_NODRIVER	Literal		319
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	Literal	327	
DS\$K_TYPE_QIO_WRONGVER	Literal		319
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DS\$K_TYPE_SCRIPT_ECHO	Literal		319
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DS\$K_TYPE_SCRIPT_PNF	Literal		319
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DS\$K_TYPE_SCRIPT_PROMPT	Literal		319
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DS\$K_TYPE_SCRIPT_SKIP	Literal		319

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	Literal	320	
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	Literal	327	
DS\$K_TYPE_SEQUENCE_ERROR	Literal		319
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DS\$K_TYPE_START_ERR	Literal		319
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DS\$K_TYPE_START_LIST	Literal		319
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DS\$K_TYPE_SUMMARY	Literal		319
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DS\$K_TYPE_USER_PROMPT	Literal		319
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	Literal	326	
	Literal	327	

CRDPTABLE *** CRDPTABLE Module

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01-01 CRD\$Print PTables Routine

3-Jan-1985 17:02:13 [DS.CRD.V020]CRDPTABLE.B32:1 (14)

Symbol	Type	Defined	Referenced ...
GET1ST	Macro	Lib04	78 319 320 321 322 323 324 325 326 327
GET2ND	Unbound		78 319 320 321 322 323 324 325 326 327
HP\$A_LINK	Field	Lib03	325.
HP\$B_DRIVE	Field	Lib03	324.
HP\$B_REFC	Field	Lib03	323.
HP\$K_LENGTH	Literal	Lib03	155 234 307
HP\$Q_DEVICE	Field	Lib03	161a 236a 320a
HP\$T_TYPE	Field	Lib03	326a
HP\$W_SIZE	Field	Lib03	322.
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		78
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		78
HS\$K_ACTION_ADVANCE_STATE	Literal		78
HS\$K_ACTION_CHANGE_TABLE	Literal		78
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		78
HS\$K_ACTION_DONE_GENERAL_COMS	Literal		78
HS\$K_ACTION_DO_NOTHING	Literal		78
HS\$K_ACTION_DUMMY_3	Literal		78
HS\$K_ACTION_DUMMY_4	Literal		78
HS\$K_ACTION_DUMMY_5	Literal		78
HS\$K_ACTION_DUMMY_6	Literal		78
HS\$K_ACTION_INIT_HS	Literal		78
HS\$K_ACTION_INTERNAL_ERROR	Literal		78
HS\$K_ACTION_LAST_ACTION	Literal		78
HS\$K_ACTION_LOAD_ERROR	Literal		78
HS\$K_ACTION_LOAD_GENERAL_COM	Literal		78
HS\$K_ACTION_LOAD_LOAD_COM	Literal		78
HS\$K_ACTION_LOAD_SELECT_COM	Literal		78
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal		78
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal		78
HS\$K_ACTION_LOAD_START_COM	Literal		78
HS\$K_ACTION_PREPARATION_ERROR	Literal		78
HS\$K_ACTION_START_ERROR	Literal		78
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal		78
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal		78
HS\$K_STATE_CHANGE_TABLE	Literal		78
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal		78
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal		78
HS\$K_STATE_DONE_GENERAL_COMS	Literal		78
HS\$K_STATE_DUMMY_1	Literal		78
HS\$K_STATE_DUMMY_2	Literal		78
HS\$K_STATE_DUMMY_3	Literal		78
HS\$K_STATE_DUMMY_4	Literal		78
HS\$K_STATE_DUMMY_6	Literal		78
HS\$K_STATE_INIT_HS	Literal		78
HS\$K_STATE_INTERNAL_ERROR	Literal		78
HS\$K_STATE_LAST_STATE	Literal		78
HS\$K_STATE_LOAD_ERROR	Literal		78
HS\$K_STATE_LOAD_GENERAL_COM	Literal		78
HS\$K_STATE_LOAD_LOAD_COM	Literal		78
HS\$K_STATE_LOAD_SELECT_COM	Literal		78
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal		78
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal		78
HS\$K_STATE_LOAD_START_COM	Literal		78

Symbol	Type	Defined	Referenced ...
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HSSK_STATE_PREPARATION_ERROR	Literal	78	
HSSK_STATE_START_ERROR	Literal	78	
MENSK_HS_STATE_TABLE	Literal	78	
MENSK_MM_STATE_TABLE	Literal	78	
MENSK_TQ_STATE_TABLE	Literal	78	
MENSK_EXIT_AUTOSIZER_ERROR	Literal	78	
MENSK_EXIT_INTERNAL_ERROR	Literal	78	
MENSK_EXIT_LAST_REASON	Literal	78	
MENSK_EXIT_OPERATOR_ABORT	Literal	78	
MENSK_EXIT_OPERATOR_STOP	Literal	78	
MENSK_EXIT_SUP_FILE_LOAD_ERR	Literal	78	
MENSK_EXIT_SUP_FILE_NOT_FOUND	Literal	78	
MM\$K_ACTION_ADVANCE_STATE	Literal	78	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	78	
MM\$K_ACTION_BUILD_DDBS	Literal	78	
MM\$K_ACTION_BUILD_HSTS	Literal	78	
MM\$K_ACTION_CHANGE_TABLE	Literal	78	
MM\$K_ACTION_DONE_INITS	Literal	78	
MM\$K_ACTION_DO_NOTHING	Literal	78	
MM\$K_ACTION_DUMMY_3	Literal	78	
MM\$K_ACTION_DUMMY_4	Literal	78	
MM\$K_ACTION_DUMMY_5	Literal	78	
MM\$K_ACTION_DUMMY_6	Literal	78	
MM\$K_ACTION_DUMMY_7	Literal	78	
MM\$K_ACTION_DUMMY_8	Literal	78	
MM\$K_ACTION_INTERNAL_ERROR	Literal	78	
MM\$K_ACTION_LAST_ACTION	Literal	78	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	78	
MM\$K_ACTION_MENU_PROMPT	Literal	78	
MM\$K_ACTION_PRINT_MENU	Literal	78	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	78	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	78	
MM\$K_ACTION_START_AUTOSIZER	Literal	78	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	78	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	78	
MM\$K_STATE_BUILD_DDBS	Literal	78	
MM\$K_STATE_BUILD_HSTS	Literal	78	
MM\$K_STATE_CHANGE_TABLE	Literal	78	
MM\$K_STATE_DONE_INITS	Literal	78	
MM\$K_STATE_DUMMY_1	Literal	78	
MM\$K_STATE_DUMMY_2	Literal	78	
MM\$K_STATE_DUMMY_3	Literal	78	
MM\$K_STATE_DUMMY_5	Literal	78	
MM\$K_STATE_DUMMY_7	Literal	78	
MM\$K_STATE_DUMMY_8	Literal	78	
MM\$K_STATE_INTERNAL_ERROR	Literal	78	
MM\$K_STATE_LAST_STATE	Literal	78	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	78	
MM\$K_STATE_MENU_PROMPT	Literal	78	
MM\$K_STATE_PRINT_MENU	Literal	78	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	78	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	78	
MM\$K_STATE_START	Literal	78	

Symbol	Type	Defined	Referenced ...
MM\$K_STATE_START_AUTOSIZER	Literal	78	
MODNAM	Macro	Lib02 94	
NUL2ND	Macro	Lib04 78	319 320 321 322 323 324 325 326 327
NUMB_PTABLE_ADDRESSES	Bind	294 301.	
NUMB_PTABLE_ENTRIES	Bind	123 143.	
OUTPUT_0	Bind	309 319a	
OUTPUT_1	Bind	310 320a	
OUTPUT_2	Bind	311 321a	
OUTPUT_3	Bind	312 322a	
OUTPUT_4	Bind	313 323a	
OUTPUT_5	Bind	314 324a	
OUTPUT_6	Bind	315 325a	
OUTPUT_7	Bind	316 326a	
OUTPUT_8	Bind	317 327a	
PTABLE	Bind	155 161a	
	Bind	234 236a	
	Bind	307 320a	322. 323. 324. 325. 326a
PTABLE_ADDRESSES	Bind	295 304.	
PTABLE_DEVICE_NAME	Local	129 167=	171m 173a. 175= 175aa 187a.
PTABLE_DEVICE_NAME_DESC	Local	131 161=	164m 166a. 167a.
	Local	229 236=	240m 242a. 243a.
PTABLE_DEVICE_NAME_LEN	Local	130 166=	176= 176. 187.
PTABLE_INDEX	Local	298 301=	304. 319. 329= 329.
PTABLE_PTR	Local	128 152=	155. 190.
	RoutForm	200 234.	
	Local	299 304=	307. 321.
PTABLE_TABLE	Bind	124 152.	
PTABLE_TABLE_INDEX	Local	127 143=	152. 192= 192.
TQ\$K_ACTION_ADVANCE_STATE	Literal	78	
TQ\$K_ACTION_CHANGE_TABLE	Literal	78	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	78	
TQ\$K_ACTION_DO_NOTHING	Literal	78	
TQ\$K_ACTION_DUMMY_3	Literal	78	
TQ\$K_ACTION_DUMMY_4	Literal	78	
TQ\$K_ACTION_DUMMY_5	Literal	78	
TQ\$K_ACTION_GET_DDB	Literal	78	
TQ\$K_ACTION_INIT_TQ	Literal	78	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	78	
TQ\$K_ACTION_LAST_ACTION	Literal	78	
TQ\$K_STATE_CHANGE_TABLE	Literal	78	
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	78	
TQ\$K_STATE_DUMMY_1	Literal	78	
TQ\$K_STATE_DUMMY_2	Literal	78	
TQ\$K_STATE_DUMMY_3	Literal	78	
TQ\$K_STATE_DUMMY_4	Literal	78	
TQ\$K_STATE_DUMMY_5	Literal	78	
TQ\$K_STATE_GET_DDB	Literal	78	
TQ\$K_STATE_INIT_TQ	Literal	78	
TQ\$K_STATE_INTERNAL_ERROR	Literal	78	
TQ\$K_STATE_LAST_STATE	Literal	78	

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDPTABLE.B32;1
2	Module	CRDPTABLE
55	Library #1	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
58	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
61	Library #3	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
64	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
334	Eludom	CRDPTABLE

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Symbols			Pages	Processing	Mapped	Time
	Total	Loaded	Percent				
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	7	1	62			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	18	1	94			00:00.2
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			3	0	1000	00:04.2

COMMAND QUALIFIERS

BLISS CRDPTABLE.B32/LIST-CRDPTABLE.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDPTABLE.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 335 code + 210 data bytes
 ; Run Time: 00:35.6
 ; Elapsed Time: 01:07.4
 ; Lines/CPU Min: 563
 ; Lexemes/CPU-Min: 69974

ZZ-ENSAB-2.0 CRD\$Print_PTables Routine J 5
CRDPTABLE *** CRDPTABLE Module 19-Sep-1985 16:59:10 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame JS Sequence 885
01-01 CRD\$Print_PTables Routine Page 34

; Memory Used: 232 pages
; Compilation Complete

```
; 0001 0 *TITLE '*** CRDSTATE Module'
; 0002 0 MODULE CRDSTATE ( ! Operate a finite state automata
; 0003 0 IDENT = '01-04'
; 0004 0 ) =
; 0005 0 !+
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !-
```

```

: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : Operate a finite state automata for the purpose of executing DS
: 0032 0 : commands for CRD-AutoTest.
: 0033 0 :
: 0034 0 : Author:
: 0035 0 :
: 0036 0 : Jack Stansbury
: 0037 0 :
: 0038 0 : Creation Date:
: 0039 0 :
: 0040 0 : April 22, 1982
: 0041 0 :
: 0042 0 : Version:
: 0043 0 :
: 0044 0 : 6.9
: 0045 0 :
: 0046 0 : Modified By:
: 0047 0 :
: 0048 0 : 01 Jack Stansbury, Version 1.1, July 27, 1982
: 0049 0 :   Changed the action routine for the DS_Prompt/Done_General_Coms from
: 0050 0 :   Advance_State to Done_General_Coms!
: 0051 0 :
: 0052 0 : 02 Jack Stansbury, Version 1.1, September 30, 1982
: 0053 0 :   Major revisions for the changes in state and action routine names. None of the changes
: 0054 0 :   are marked because there were so many.
: 0055 0 :
: 0056 0 : 03 Jack Stansbury, Version 1.2, March 3, 1983
: 0057 0 :   Since both the error action routines (for diagnostic_error and for preparation_error)
: 0058 0 :   both abort the diagnostic, and since the cleanup section is run as part of the abort,
: 0059 0 :   and since the diagnostic MAY (although not supposed too ...) issue print statements,
: 0060 0 :   error calls, prompts, etc., make the diagnostic_error state and the preparation_error
: 0061 0 :   state both be as forgiving as possible. Only change state out of these two states
: 0062 0 :   when you get the DS> prompt.
: 0063 0 :
: 0064 0 : 04 Jack Stansbury, Version 1.2, March 4, 1983
: 0065 0 :   Added an Assert statement for the number of typecodes. If the number of typecodes
: 0066 0 :   changes from 38, the state tables must be changed accordingly.
: 0067 0 : --

```

ZZ-ENSAB-2.0 Libraries
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746
01-04 Libraries 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (3)

M 5

19-Sep-1985

Fiche 5 Frame M5

Sequence 888

Page 3

```
; 0068 0 xSBTTL 'Libraries'
; 0069 1 BEGIN      ! Begin the CRDSTATE module
; 0070 1
; 0071 1 LIBRARY
; 0072 1 '$DS';      ! Use Ds.L32 first
; 0073 1
; 0074 1 LIBRARY
; 0075 1 '$Diag';    ! Use Diag.L32 second
; 0076 1
; 0077 1 LIBRARY
; 0078 1 '$CRD';     ! Use CRD.L32 third
; 0079 1
; 0080 1 LIBRARY
; 0081 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```

; 0082 1 %SBTTL 'Included Macros and Literals'
; 0083 1
; 0084 1 $DS_TypeDef;    ! Define the TypeCodes
; 0085 1 $CRD_Literals;  ! Define some literals for CRD
; 0086 1
; 0087 1 GLOBAL          ! Define these globally
; 0088 1 $DS_DSSDef;     ! Define Resident-DS entry points for Supervisor services (for $DS_Break)

```



```

: 0089 1 xSBTTL 'Table of Contents'
: 0090 1
: 0091 1 FORWARD ROUTINE
: 0092 1 CRD$Get_State : ADDRESSING_MODE (LONG_RELATIVE),
: 0093 1 ! Get the current state number
: 0094 1
: 0095 1 CRD$Get_Action_Routine : ADDRESSING_MODE (LONG_RELATIVE),
: 0096 1 ! Get the current action routine number
: 0097 1
: 0098 1 CRD$Init_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
: 0099 1 ! Initialize the CRD$GW_State_Table
: 0100 1
: 0101 1 CRD$Turing_Machine : ADDRESSING_MODE (LONG_RELATIVE),
: 0102 1 ! Step through the state table
: 0103 1
: 0104 1 CRD$Print_Action_Routine : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
: 0105 1 ! Print the action routine number

```

```
: 0106 1 xSBTTL 'Psect Definitions'
: 0107 1
: 0108 1 PSECT
: 0109 1     PLIT   = Data (NOEXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0110 1
: 0111 1 PSECT
: 0112 1     CODE   = Code ( EXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
: 0113 1
: 0114 1 PSECT
: 0115 1     OWN    = Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0116 1
: 0117 1 PSECT
: 0118 1     GLOBAL = Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Global Own Storage D 6
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame D6 Sequence 892
01-04 Global Own Storage 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 Page 7 (7)

: 0119 1 xSBTTL 'Global Own Storage'
: 0120 1
: 0121 1 GLOBAL
: 0122 1 CRD\$GL_Current_TypeCode, ! This is the current typecode number
: 0123 1 CRD\$GL_Current_State, ! This is the current state number
: 0124 1 CRD\$GL_Current_Action; ! This is the current action routine number

```

: 0125 1 xSBTTL 'Local Macro Definitions'
: 0126 1
: 0127 1 COMPILETIME
: 0128 1 $Temp$ = 0, ! For temps
: 0129 1 $Prev_Column$ = 0, ! The previous column in the Insert_N macro
: 0130 1 $Window_Size$ = 0, ! The window size in the Insert_N macro
: 0131 1 $Row_Cnt$ = 0, ! For Fill_N_Rows macro - count rows
: 0132 1 $Entry$ = 0, ! Number of entrys put into current row
: 0133 1 $Rows$ = 0; ! Number of rows put in so far
: 0134 1
: 0135 1 MACRO
M 0136 1 Fill_N_Entrys (N, New_State, Action_Routine) =
M 0137 1 REP_N_OF
: 0138 1 WORD (xNAME ('CRD$K_', Action_Routine), xNAME ('CRD$K_', New_State))
: 0139 1
: 0140 1 xIF ($Entry$ + N) EQL CRD$K_Numb_States
: 0141 1 xTHEN
: 0142 1 xASSIGN ($Rows$, $Rows$ + 1)
: 0143 1 xASSIGN ($Entry$, 0)
: 0144 1 xELSE
: 0145 1 xIF ($Entry$ + N) GTR CRD$K_Numb_States
: 0146 1 xTHEN
: 0147 1 xERRORMACRO ('Fill_N_Entrys: Too many entrys (', xNUMBER ($Entry$), ') in row ', xNUMBER ($Rows$))
: 0148 1 xELSE
: 0149 1 xASSIGN ($Entry$, $Entry$ + N)
: 0150 1 xFI
: 0151 1 xFI
: 0152 1 x;
: 0153 1
: 0154 1 MACRO
M 0155 1 Insert_Entrys (New_State, Action_Routine) [] =
: 0156 1 Fill_N_Entrys (1, New_State, Action_Routine)
: 0157 1
: 0158 1 xIF NOT xNULL (xREMAINING)
: 0159 1 xTHEN
: 0160 1 ,Insert_Entrys (xREMAINING)
: 0161 1 xFI
: 0162 1 x;
: 0163 1
: 0164 1 MACRO
M 0165 1 Fill_Full_Row =
: 0166 1 xIF $Entry$ NEQ 0
: 0167 1 xTHEN
: 0168 1 xERRORMACRO ('Fill_Full_Row: $Entry$ = ', xNUMBER ($Entry$), ', not zero')
: 0169 1 xELSE
: 0170 1 Fill_N_Entrys (CRD$K_Numb_States, State_Internal_Error, Internal_Error)
: 0171 1 xFI
: 0172 1 x;

```

```
: 0173 1 MACRO
: 0174 1 !+
: 0175 1 ! Insert entrys into one whole row. The column number tells what column to put 'State' and
: 0176 1 ! 'Action' into. This macro can be called with any number of parameters as long as the
: 0177 1 ! number is mod 3.
: 0178 1 !-
: 0179 1
: M 0180 1 Insert_N (Column, State, Action) [] =
: M 0181 1 xIF xCOUNT EQL 0
: M 0182 1 xTHEN
: M 0183 1 xASSIGN ($Prev_Column$, 0)
: M 0184 1 xFI
: M 0185 1
: M 0186 1 xASSIGN ($Window_Size$, xNAME ('CRD$K_', Column) - $Prev_Column$)
: M 0187 1
: M 0188 1 xIF $Window_Size$ GTR 0
: M 0189 1 xTHEN
: M 0190 1 Fill_N_Entrys ($Window_Size$, State_Internal_Error, Internal_Error),
: M 0191 1 xFI
: M 0192 1
: M 0193 1 Insert_Entrys (State, Action)
: M 0194 1
: M 0195 1 xASSIGN ($Prev_Column$, xNAME ('CRD$K_', Column) + 1)
: M 0196 1
: M 0197 1 xIF NOT xNULL (xREMAINING)
: M 0198 1 xTHEN
: M 0199 1 , Insert_N (xREMAINING)
: M 0200 1 xELSE
: M 0201 1 xASSIGN ($Window_Size$, CRD$K_Numb_States - $Prev_Column$)
: M 0202 1
: M 0203 1 xIF $Window_Size$ GTR 0
: M 0204 1 xTHEN
: M 0205 1 , Fill_N_Entrys ($Window_Size$, State_Internal_Error, Internal_Error)
: M 0206 1 xFI
: M 0207 1 xFI
: 0208 1 x;
```

```

; 0209 1 xSBTTL 'Global Bindings'
; 0210 1
; L 0211 1 CRD_Assert ((CRD$K_Numb_TypeCodes EQL 38), 'You must add more rows to the state tables for the new typecodes'); ![[04]
; xPRINT: ASSERT: The assertion is true.
; 0212 1
; 0213 1 GLOBAL BIND
; 0214 1 CRD$GW_State_Table =
; 0215 1 UPLIT (
; P 0216 1   Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
; P 0217 1     State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
; P 0218 1     State_Internal_Error, State_Start, Internal_Error,
; P 0219 1     State_Load_Error, State_Load_Error, Do_Nothing,
; P 0220 1     State_Start_Error, State_Start_Error, Do_Nothing,
; P 0221 1     State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0222 1     State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0223 1   ! This row is for the General typecode (Row 0)
; 0224 1
; P 0225 1   Insert_N (State_Start, State_Level_4_Passed, Advance_State,
; P 0226 1     State_Level_4_Passed, State_Load_AutoSizer, Level_4_Passed,
; P 0227 1     State_Load_AutoSizer, State_AutoSizer_Set_Flags, Load_AutoSizer,
; P 0228 1     State_AutoSizer_Set_Flags, State_Start_AutoSizer, AutoSizer_Set_Flags,
; P 0229 1     State_Start_AutoSizer, State_AutoSizer_Running, Start_AutoSizer,
; P 0230 1     State_AutoSizer_Running, State_Assign_PTable_Ptrs, Advance_State,
; P 0231 1     State_Assign_PTable_Ptrs, State_Set_Up_Diagnostic, Assign_PTable_Ptrs,
; P 0232 1     State_Set_Up_Diagnostic, State_Load_General_Com, Set_Up_Diagnostic,
; P 0233 1     State_Load_General_Com, State_Advance_General_Com, Load_General_Com,
; P 0234 1     State_Advance_General_Com, State_Load_General_Com, Advance_General_Com,
; P 0235 1     State_Done_General_Com, State_Load_Load_Com, Done_General_Com,
; P 0236 1     State_Load_Load_Com, State_Load_Set_Flags_Com, Load_Load_Com,
; P 0237 1     State_Load_Set_Flags_Com, State_Load_Set_Event_Com, Load_Set_Flags_Com,
; P 0238 1     State_Load_Set_Event_Com, State_Load_Select_Com, Load_Set_Event_Com,
; P 0239 1     State_Load_Select_Com, State_Load_Start_Com, Load_Select_Com,
; P 0240 1     State_Load_Start_Com, State_Diagnostic_Running, Load_Start_Com,
; P 0241 1     State_Diagnostic_Running, State_Advance_Diagnostic, Advance_State,
; P 0242 1     State_Advance_Diagnostic, State_Set_Up_Diagnostic, Advance_Diagnostic,
; P 0243 1     State_Done_Diagnostics, State_Exit_CRD, Advance_State,
; P 0244 1     State_Exit_CRD, State_Start, Exit_CRD,
; P 0245 1     State_AutoSizer_Error, State_Start, AutoSizer_Error,
; P 0246 1     State_Internal_Error, State_Start, Internal_Error,
; P 0247 1     State_Load_Error, State_Advance_Diagnostic, Load_Error,
; P 0248 1     State_Start_Error, State_Advance_Diagnostic, Start_Error,
; P 0249 1     State_Diagnostic_Error, State_Advance_Diagnostic, Advance_State,
; P 0250 1     State_Preparation_Error, State_Advance_Diagnostic, Advance_State),
; 0251 1   ! This row is for the DS_Prompt typecode (Row 1)
; 0252 1
; P 0253 1   Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0254 1     State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0255 1     State_Internal_Error, State_Start, Internal_Error,
; P 0256 1
; 0257 1
; 0258 1
; 0259 1
; P 0260 1
; P 0261 1
; P 0262 1

```

```
; P 0263 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0264 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0265 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0266 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0267 1      ! This row is for the User_Prompt typecode (Row 2)
; 0268 1
; P 0269 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
; P 0270 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
; P 0271 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0272 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
; P 0273 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
; P 0274 1      State_Load_Select_Com, State_Start_Error, Advance_State,
; P 0275 1      State_Load_Start_Com, State_Start_Error, Advance_State,
; P 0276 1      State_Diagnostic_Running, State_Start_Error, Advance_State,
; P 0277 1      State_Internal_Error, State_Start, Internal_Error,
; P 0278 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0279 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0280 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0281 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0282 1      ! This row is for the General_Error typecode (Row 3)
; 0283 1
; 0284 1      Fill_Full_Row,
; 0285 1      ! This row is for the ErrSup typecode (Row 4)
; 0286 1
; P 0287 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0288 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0289 1      State_Internal_Error, State_Start, Internal_Error,
; P 0290 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0291 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0292 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0293 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0294 1      ! This row is for the ErrSys typecode (Row 5)
; 0295 1
; P 0296 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0297 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0298 1      State_Internal_Error, State_Start, Internal_Error,
; P 0299 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0300 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0301 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0302 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0303 1      ! This row is for the ErrHard typecode (Row 6)
; 0304 1
; P 0305 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0306 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0307 1      State_Internal_Error, State_Start, Internal_Error,
; P 0308 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0309 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0310 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0311 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0312 1      ! This row is for the ErrSoft typecode (Row 7)
; 0313 1
; P 0314 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0315 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0316 1      State_Internal_Error, State_Start, Internal_Error,
; P 0317 1      State_Load_Error, State_Load_Error, Do_Nothing,
```

```
; P 0318 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0319 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0320 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0321 1      ! This row is for the ErrDev typecode (Row 8)
; 0322 1
; P 0323 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0324 1      State_Internal_Error, State_Start, Internal_Error,
; P 0325 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0326 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0327 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0328 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0329 1      ! This row is for the Error_Body typecode (Row 9)
; 0330 1
; P 0331 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0332 1      State_Internal_Error, State_Start, Internal_Error,
; P 0333 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0334 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0335 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0336 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0337 1      ! This row is for the Error_End typecode (Row 10)
; 0338 1
; P 0339 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
; P 0340 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
; P 0341 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0342 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
; P 0343 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
; P 0344 1      State_Load_Select_Com, State_Start_Error, Advance_State,
; P 0345 1      State_Load_Start_Com, State_Start_Error, Advance_State,
; P 0346 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; 0347 1      State_Internal_Error, State_Start, Internal_Error),
; 0348 1      ! This row is for the Exception_Head typecode (Row 11)
; 0349 1
; P 0350 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
; P 0351 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
; P 0352 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0353 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
; P 0354 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
; P 0355 1      State_Load_Select_Com, State_Start_Error, Advance_State,
; P 0356 1      State_Load_Start_Com, State_Start_Error, Advance_State,
; P 0357 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0358 1      State_Internal_Error, State_Start, Internal_Error,
; P 0359 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0360 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0361 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0362 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0363 1      ! This row is for the Exception typecode (Row 12)
; 0364 1
; P 0365 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0366 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0367 1      State_Internal_Error, State_Start, Internal_Error,
; P 0368 1      State_Load_Error, State_Load_Error, Do_Nothing,
; P 0369 1      State_Start_Error, State_Start_Error, Do_Nothing,
; P 0370 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0371 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0372 1      ! This row is for the Err_Halt typecode (Row 13)
```



```

; 0373 1
; P 0374 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
; P 0375 1 State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
; P 0376 1 State_Internal_Error, State_Start, Internal_Error,
; P 0377 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0378 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0379 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0380 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0381 1 ! This row is for the Summary typecode (Row 14)
; 0382 1
; P 0383 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
; P 0384 1 State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
; 0385 1 State_Internal_Error, State_Start, Internal_Error),
; 0386 1 ! This row is for the Program_Start typecode (Row 15)
; 0387 1
; P 0388 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
; P 0389 1 State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
; P 0390 1 State_Internal_Error, State_Start, Internal_Error,
; P 0391 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0392 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0393 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0394 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0395 1 ! This row is for the Program_End typecode (Row 16)
; 0396 1
; P 0397 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
; P 0398 1 State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
; 0399 1 State_Internal_Error, State_Start, Internal_Error),
; 0400 1 ! This row is for the First_Pass typecode (Row 17)
; 0401 1
; P 0402 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0403 1 State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0404 1 State_Internal_Error, State_Start, Internal_Error,
; P 0405 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0406 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0407 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0408 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0409 1 ! This row is for the No_Tests typecode (Row 18)
; 0410 1
; P 0411 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0412 1 State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0413 1 State_Internal_Error, State_Start, Internal_Error,
; P 0414 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0415 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0416 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0417 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
; 0418 1 ! This row is for the Abort_Test typecode (Row 19)
; 0419 1
; P 0420 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0421 1 State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0422 1 State_AutoSizer_Error, State_AutoSizer_Error, Do_Nothing,
; P 0423 1 State_Internal_Error, State_Start, Internal_Error,
; P 0424 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0425 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0426 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing,
; 0427 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing),

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: 0428 1      ! This row is for the Abort_Program typecode (Row 20)
: 0429 1
: P 0430 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0431 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0432 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0433 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0434 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0435 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0436 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0437 1      State_Diagnostic_Running, State_Start_Error, Advance_State,
: P 0438 1      State_Internal_Error, State_Start, Internal_Error,
: P 0439 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0440 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0441 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0442 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
: 0443 1      ! This row is for the Command_Err typecode (Row 21)
: 0444 1
: P 0445 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0446 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0447 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0448 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0449 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0450 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0451 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0452 1      State_Diagnostic_Running, State_Start_Error, Advance_State,
: P 0453 1      State_Internal_Error, State_Start, Internal_Error,
: P 0454 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0455 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0456 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0457 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
: 0458 1      ! This row is for the Command_Out typecode (Row 22)
: 0459 1
: P 0460 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Running, Do_Nothing,
: P 0461 1      State_Diagnostic_Running, State_Diagnostic_Running, Do_Nothing,
: 0462 1      State_Internal_Error, State_Start, Internal_Error),
: 0463 1      ! This row is for the Program_Info typecode (Row 23)
: 0464 1
: P 0465 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0466 1      State_Diagnostic_Running, State_Start_Error, Advance_State,
: 0467 1      State_Internal_Error, State_Start, Internal_Error),
: 0468 1      ! This row is for the Start_Err typecode (Row 24)
: 0469 1
: P 0470 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0471 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0472 1      State_Internal_Error, State_Start, Internal_Error,
: P 0473 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0474 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0475 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0476 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing), ! [03]
: 0477 1      ! This row is for the Sequence_Error typecode (Row 25)
: 0478 1
: 0479 1      Fill_Full_Row,
: 0480 1      ! This row is for the CRD_AutoTest typecode (Row 26)
: 0481 1
: P 0482 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,

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: P 0483 1      State_Diagnostic_Running, State_Preparation_Error, Preparation_Error,
: P 0484 1      State_Internal_Error, State_Start, Internal_Error,
: P 0485 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0486 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0487 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0488 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0489 1      ! This row is for the ErrPrep typecode (Row 27)
: 0490 1
: P 0491 1      Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0492 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0493 1      State_Internal_Error, State_Start, Internal_Error,
: P 0494 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0495 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0496 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0497 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0498 1      ! This row is for the Param_Error typecode (Row 28)
: 0499 1
: 0500 1      Insert_N (State_Start, State_Start, Do_Nothing),
: 0501 1      ! This row is for the DS_Start typecode (Row 29)
: 0502 1
: P 0503 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0504 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0505 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0506 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0507 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0508 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0509 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0510 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0511 1      State_Internal_Error, State_Start, Internal_Error,
: P 0512 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0513 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0514 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0515 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0516 1      ! This row is for the Script_Pnf typecode (Row 30)
: 0517 1
: P 0518 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0519 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0520 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0521 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0522 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0523 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0524 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0525 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0526 1      State_Internal_Error, State_Start, Internal_Error,
: P 0527 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0528 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0529 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0530 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0531 1      ! This row is for the Script_Skip typecode (Row 31)
: 0532 1
: P 0533 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0534 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0535 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0536 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0537 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,

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: P 0538 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0539 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0540 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0541 1      State_Internal_Error, State_Start, Internal_Error,
: P 0542 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0543 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0544 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0545 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0546 1      ! This row is for the Script_Prompt typecode (Row 32)
: 0547 1
: P 0548 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0549 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0550 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0551 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0552 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0553 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0554 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0555 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0556 1      State_Internal_Error, State_Start, Internal_Error,
: P 0557 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0558 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0559 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0560 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0561 1      ! This row is for the Script_Echo typecode (Row 33)
: 0562 1
: P 0563 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0564 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0565 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0566 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0567 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0568 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0569 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0570 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0571 1      State_Internal_Error, State_Start, Internal_Error,
: P 0572 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0573 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0574 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0575 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0576 1      ! This row is for the Q10_NoDriver typecode (Row 34)
: 0577 1
: P 0578 1      Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
: P 0579 1      State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
: P 0580 1      State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
: P 0581 1      State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
: P 0582 1      State_Load_Set_Event_Com, State_Start_Error, Advance_State,
: P 0583 1      State_Load_Select_Com, State_Start_Error, Advance_State,
: P 0584 1      State_Load_Start_Com, State_Start_Error, Advance_State,
: P 0585 1      State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
: P 0586 1      State_Internal_Error, State_Start, Internal_Error,
: P 0587 1      State_Load_Error, State_Load_Error, Do_Nothing,
: P 0588 1      State_Start_Error, State_Start_Error, Do_Nothing,
: P 0589 1      State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
: 0590 1      State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
: 0591 1      ! This row is for the Q10_WrongVer typecode (Row 35)
: 0592 1
```

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; P 0593 1 Insert_N (State_AutoSizer_Set_Flags, State_AutoSizer_Error, AutoSizer_Error,
; P 0594 1 State_Start_AutoSizer, State_AutoSizer_Error, AutoSizer_Error,
; P 0595 1 State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0596 1 State_Load_Set_Flags_Com, State_Load_Error, Advance_State,
; P 0597 1 State_Load_Set_Event_Com, State_Start_Error, Advance_State,
; P 0598 1 State_Load_Select_Com, State_Start_Error, Advance_State,
; P 0599 1 State_Load_Start_Com, State_Start_Error, Advance_State,
; P 0600 1 State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0601 1 State_Internal_Error, State_Start, Internal_Error,
; P 0602 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0603 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0604 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0605 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
; 0606 1 ! This row is for the QIO_InvAdp typecode (Row 36)
; 0607 1
; P 0608 1 Insert_N (State_AutoSizer_Running, State_AutoSizer_Error, AutoSizer_Error,
; P 0609 1 State_Diagnostic_Running, State_Diagnostic_Error, Diagnostic_Error,
; P 0610 1 State_Internal_Error, State_Start, Internal_Error,
; P 0611 1 State_Load_Error, State_Load_Error, Do_Nothing,
; P 0612 1 State_Start_Error, State_Start_Error, Do_Nothing,
; P 0613 1 State_Diagnostic_Error, State_Diagnostic_Error, Do_Nothing, ! [03]
; 0614 1 State_Preparation_Error, State_Preparation_Error, Do_Nothing, ! [03]
; 0615 1 ! This row is for the Start_List typecode (Row 37)
; 0616 1
; 0617 1 ) : State_Table_Structure [CRD$K_Numb_TypeCodes, CRD$K_Numb_States];
  
```

```
: 0618 1 xSBTTL 'CRD$Init_State_Table Routine'
: 0619 1
: 0620 1 GLOBAL ROUTINE CRD$Init_State_Table : NOVALUE =
: 0621 1
: 0622 1 !*
: 0623 1 ! Functional Description:
: 0624 1 !
: 0625 1 ! Initialize the CRD$GW_State_Table and all its associated data structures.
: 0626 1 !
: 0627 1 ! Formal Input Parameters:
: 0628 1 !
: 0629 1 ! None
: 0630 1 !
: 0631 1 ! Formal Output Parameters:
: 0632 1 !
: 0633 1 ! None
: 0634 1 !
: 0635 1 ! Side Effects:
: 0636 1 !
: 0637 1 ! Plenty!
: 0638 1 !
: 0639 1 ! Completion Codes:
: 0640 1 !
: 0641 1 ! None
: 0642 1 ! -
```

```

; 0643 2 BEGIN      ! Routine CRD$Init_State_Table
; 0644 2
; 0645 2 CRD$GL_Current_TypeCode = DS$K_Type_General;
; 0646 2 CRD$GL_Current_State   = CRD$K_State_Start;
; 0647 2 CRD$GL_Current_Action  = CRD$K_Last_Action_Routine;
; 0648 2
; 0649 2 RETURN;
; 0650 1 END;      ! Routine CRD$Init_State_Table
  
```

```

.TITLE CRDSTATE *** CRDSTATE Module
.IDENT \01-04\
  
```

```

.PSECT WORK,NOEXE,2
  
```

```

00000 CRD$GL_CURRENT_TYPECODE::
.BLKB 4
00004 CRD$GL_CURRENT_STATE::
.BLKB 4
00008 CRD$GL_CURRENT_ACTION::
.BLKB 4
  
```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2
  
```

```

001E 001E 00000 P.AAA: .WORD 30, 30 ;
001E 001E 00004 .WORD 30, 30 ;
001E 001E 00008 .WORD 30, 30 ;
001E 001E 0000C .WORD 30, 30 ;
001E 001E 00010 .WORD 30, 30 ;
001E 001E 00014 .WORD 30, 30 ;
001E 001E 00018 .WORD 30, 30 ;
001E 001E 0001C .WORD 30, 30 ;
001E 001E 00020 .WORD 30, 30 ;
0009 0000 00024 .WORD 0, 9 ;
001E 001E 00028 .WORD 30, 30 ;
001E 001E 0002C .WORD 30, 30 ;
001E 001E 00030 .WORD 30, 30 ;
001E 001E 00034 .WORD 30, 30 ;
001E 001E 00038 .WORD 30, 30 ;
001E 001E 0003C .WORD 30, 30 ;
001E 001E 00040 .WORD 30, 30 ;
001E 001E 00044 .WORD 30, 30 ;
001E 001E 00048 .WORD 30, 30 ;
001E 001E 0004C .WORD 30, 30 ;
001E 001E 00050 .WORD 30, 30 ;
001E 001E 00054 .WORD 30, 30 ;
001E 001E 00058 .WORD 30, 30 ;
0017 0000 0005C .WORD 0, 23 ;
001E 001E 00060 .WORD 30, 30 ;
001E 001E 00064 .WORD 30, 30 ;
001E 001E 00068 .WORD 30, 30 ;
001E 001E 0006C .WORD 30, 30 ;
001E 001E 00070 .WORD 30, 30 ;
001E 001E 00074 .WORD 30, 30 ;
0003 001E 00078 .WORD 30, 3
  
```

001F	0000	0007C	.WORD	0, 31	:
0020	0000	00080	.WORD	0, 32	:
0021	0000	00084	.WORD	0, 33	:
0022	0000	00088	.WORD	0, 34	:
001E	001E	0008C	.WORD	30, 30	:
001E	001E	00090	.WORD	30, 30	:
001E	001E	00094	.WORD	30, 30	:
001E	001E	00098	.WORD	30, 30	:
0004	0001	0009C	.WORD	1, 4	:
0006	0004	000A0	.WORD	4, 6	:
001E	001E	000A4	.WORD	30, 30	:
0007	0006	000A8	.WORD	6, 7	:
0008	0007	000AC	.WORD	7, 8	:
0009	0008	000B0	.WORD	8, 9	:
000A	0001	000B4	.WORD	1, 10	:
000C	000A	000B8	.WORD	10, 12	:
001E	001E	000BC	.WORD	30, 30	:
000E	000C	000C0	.WORD	12, 14	:
001E	001E	000C4	.WORD	30, 30	:
000F	000E	000C8	.WORD	14, 15	:
000E	000F	000CC	.WORD	15, 14	:
0012	0010	000D0	.WORD	16, 18	:
001E	001E	000D4	.WORD	30, 30	:
0013	0012	000D8	.WORD	18, 19	:
0014	0013	000DC	.WORD	19, 20	:
0015	0014	000E0	.WORD	20, 21	:
0016	0015	000E4	.WORD	21, 22	:
0017	0016	000E8	.WORD	22, 23	:
0019	0001	000EC	.WORD	1, 25	:
001E	001E	000F0	.WORD	30, 30	:
000C	0019	000F4	.WORD	25, 12	:
001B	0001	000F8	.WORD	1, 27	:
0003	001B	000FC	.WORD	27, 3	:
001E	001E	00100	.WORD	30, 30	:
0003	001D	00104	.WORD	29, 3	:
0003	001E	00108	.WORD	30, 3	:
0019	001F	0010C	.WORD	31, 25	:
0019	0020	00110	.WORD	32, 25	:
0019	0001	00114	.WORD	1, 25	:
0019	0001	00118	.WORD	1, 25	:
001E	001E	0011C	.WORD	30, 30	:
001E	001E	00120	.WORD	30, 30	:
001E	001E	00124	.WORD	30, 30	:
001E	001E	00128	.WORD	30, 30	:
001E	001E	0012C	.WORD	30, 30	:
001E	001E	00130	.WORD	30, 30	:
001E	001E	00134	.WORD	30, 30	:
001E	001E	00138	.WORD	30, 30	:
001E	001E	0013C	.WORD	30, 30	:
001E	001E	00140	.WORD	30, 30	:
001D	001D	00144	.WORD	29, 29	:
001E	001E	00148	.WORD	30, 30	:
001E	001E	0014C	.WORD	30, 30	:
001E	001E	00150	.WORD	30, 30	:
001E	001E	00154	.WORD	30, 30	:

001E	001E	00158	.WORD	30,	30	:
001E	001E	0015C	.WORD	30,	30	:
001E	001E	00160	.WORD	30,	30	:
001E	001E	00164	.WORD	30,	30	:
001E	001E	00168	.WORD	30,	30	:
001E	001E	0016C	.WORD	30,	30	:
001E	001E	00170	.WORD	30,	30	:
001E	001E	00174	.WORD	30,	30	:
001E	001E	00178	.WORD	30,	30	:
0021	0021	0017C	.WORD	33,	33	:
001E	001E	00180	.WORD	30,	30	:
001E	001E	00184	.WORD	30,	30	:
001E	001E	00188	.WORD	30,	30	:
001E	001E	0018C	.WORD	30,	30	:
001E	001E	00190	.WORD	30,	30	:
001E	001E	00194	.WORD	30,	30	:
0003	001E	00198	.WORD	30,	3	:
001F	0000	0019C	.WORD	0,	31	:
0020	0000	001A0	.WORD	0,	32	:
0021	0000	001A4	.WORD	0,	33	:
0022	0000	001A8	.WORD	0,	34	:
001E	001E	001AC	.WORD	30,	30	:
001E	001E	001B0	.WORD	30,	30	:
001E	001E	001B4	.WORD	30,	30	:
001E	001E	001B8	.WORD	30,	30	:
001E	001E	001BC	.WORD	30,	30	:
001E	001E	001C0	.WORD	30,	30	:
001E	001E	001C4	.WORD	30,	30	:
001E	001E	001C8	.WORD	30,	30	:
001D	001D	001CC	.WORD	29,	29	:
001D	001D	001D0	.WORD	29,	29	:
001D	001D	001D4	.WORD	29,	29	:
001E	001E	001D8	.WORD	30,	30	:
001E	001E	001DC	.WORD	30,	30	:
001E	001E	001E0	.WORD	30,	30	:
001E	001E	001E4	.WORD	30,	30	:
001E	001E	001E8	.WORD	30,	30	:
001E	001E	001EC	.WORD	30,	30	:
001E	001E	001F0	.WORD	30,	30	:
001E	001E	001F4	.WORD	30,	30	:
001E	001E	001F8	.WORD	30,	30	:
001F	0001	001FC	.WORD	1,	31	:
0020	0001	00200	.WORD	1,	32	:
0020	0001	00204	.WORD	1,	32	:
0020	0001	00208	.WORD	1,	32	:
0020	0001	0020C	.WORD	1,	32	:
001E	001E	00210	.WORD	30,	30	:
001E	001E	00214	.WORD	30,	30	:
001E	001E	00218	.WORD	30,	30	:
001E	001E	0021C	.WORD	30,	30	:
001E	001E	00220	.WORD	30,	30	:
001E	001E	00224	.WORD	30,	30	:
0003	001E	00228	.WORD	30,	3	:
001F	0000	0022C	.WORD	0,	31	:
0020	0000	00230	.WORD	0,	32	:

0021	0000	00234	.WORD	0, 33	:
0022	0000	00238	.WORD	0, 34	:
001E	001E	0023C	.WORD	30, 30	:
001E	001E	00240	.WORD	30, 30	:
001E	001E	00244	.WORD	30, 30	:
001E	001E	00248	.WORD	30, 30	:
001E	001E	0024C	.WORD	30, 30	:
001E	001E	00250	.WORD	30, 30	:
001E	001E	00254	.WORD	30, 30	:
001E	001E	00258	.WORD	30, 30	:
001E	001E	0025C	.WORD	30, 30	:
001E	001E	00260	.WORD	30, 30	:
001E	001E	00264	.WORD	30, 30	:
001E	001E	00268	.WORD	30, 30	:
001E	001E	0026C	.WORD	30, 30	:
001E	001E	00270	.WORD	30, 30	:
001E	001E	00274	.WORD	30, 30	:
001E	001E	00278	.WORD	30, 30	:
001E	001E	0027C	.WORD	30, 30	:
001E	001E	00280	.WORD	30, 30	:
001E	001E	00284	.WORD	30, 30	:
001E	001E	00288	.WORD	30, 30	:
001E	001E	0028C	.WORD	30, 30	:
001E	001E	00290	.WORD	30, 30	:
001E	001E	00294	.WORD	30, 30	:
001E	001E	00298	.WORD	30, 30	:
001E	001E	0029C	.WORD	30, 30	:
001E	001E	002A0	.WORD	30, 30	:
001E	001E	002A4	.WORD	30, 30	:
001E	001E	002A8	.WORD	30, 30	:
001E	001E	002AC	.WORD	30, 30	:
001E	001E	002B0	.WORD	30, 30	:
001E	001E	002B4	.WORD	30, 30	:
001E	001E	002B8	.WORD	30, 30	:
001E	001E	002BC	.WORD	30, 30	:
001E	001E	002C0	.WORD	30, 30	:
001E	001E	002C4	.WORD	30, 30	:
001E	001E	002C8	.WORD	30, 30	:
001E	001E	002CC	.WORD	30, 30	:
001E	001E	002D0	.WORD	30, 30	:
001E	001E	002D4	.WORD	30, 30	:
001E	001E	002D8	.WORD	30, 30	:
001E	001E	002DC	.WORD	30, 30	:
001E	001E	002E0	.WORD	30, 30	:
001E	001E	002E4	.WORD	30, 30	:
001E	001E	002E8	.WORD	30, 30	:
001E	001E	002EC	.WORD	30, 30	:
001E	001E	002F0	.WORD	30, 30	:
001D	001D	002F4	.WORD	29, 29	:
001E	001E	002F8	.WORD	30, 30	:
001E	001E	002FC	.WORD	30, 30	:
001E	001E	00300	.WORD	30, 30	:
001E	001E	00304	.WORD	30, 30	:
001E	001E	00308	.WORD	30, 30	:
001E	001E	0030C	.WORD	30, 30	:

001E	001E	00310	.WORD	30,	30	:
001E	001E	00314	.WORD	30,	30	:
001E	001E	00318	.WORD	30,	30	:
001E	001E	0031C	.WORD	30,	30	:
001E	001E	00320	.WORD	30,	30	:
001E	001E	00324	.WORD	30,	30	:
001E	001E	00328	.WORD	30,	30	:
0021	0021	0032C	.WORD	33,	33	:
001E	001E	00330	.WORD	30,	30	:
001E	001E	00334	.WORD	30,	30	:
001E	001E	00338	.WORD	30,	30	:
001E	001E	0033C	.WORD	30,	30	:
001E	001E	00340	.WORD	30,	30	:
001E	001E	00344	.WORD	30,	30	:
0003	001E	00348	.WORD	30,	3	:
001F	0000	0034C	.WORD	0,	31	:
0020	0000	00350	.WORD	0,	32	:
0021	0000	00354	.WORD	0,	33	:
0022	0000	00358	.WORD	0,	34	:
001E	001E	0035C	.WORD	30,	30	:
001E	001E	00360	.WORD	30,	30	:
001E	001E	00364	.WORD	30,	30	:
001E	001E	00368	.WORD	30,	30	:
001E	001E	0036C	.WORD	30,	30	:
001E	001E	00370	.WORD	30,	30	:
001E	001E	00374	.WORD	30,	30	:
001E	001E	00378	.WORD	30,	30	:
001E	001E	0037C	.WORD	30,	30	:
001E	001E	00380	.WORD	30,	30	:
001D	001D	00384	.WORD	29,	29	:
001E	001E	00388	.WORD	30,	30	:
001E	001E	0038C	.WORD	30,	30	:
001E	001E	00390	.WORD	30,	30	:
001E	001E	00394	.WORD	30,	30	:
001E	001E	00398	.WORD	30,	30	:
001E	001E	0039C	.WORD	30,	30	:
001E	001E	003A0	.WORD	30,	30	:
001E	001E	003A4	.WORD	30,	30	:
001E	001E	003A8	.WORD	30,	30	:
001E	001E	003AC	.WORD	30,	30	:
001E	001E	003B0	.WORD	30,	30	:
001E	001E	003B4	.WORD	30,	30	:
001E	001E	003B8	.WORD	30,	30	:
0021	0021	003BC	.WORD	33,	33	:
001E	001E	003C0	.WORD	30,	30	:
001E	001E	003C4	.WORD	30,	30	:
001E	001E	003C8	.WORD	30,	30	:
001E	001E	003CC	.WORD	30,	30	:
001E	001E	003D0	.WORD	30,	30	:
001E	001E	003D4	.WORD	30,	30	:
0003	001E	003D8	.WORD	30,	3	:
001F	0000	003DC	.WORD	0,	31	:
0020	0000	003E0	.WORD	0,	32	:
0021	0000	003E4	.WORD	0,	33	:
0022	0000	003E8	.WORD	0,	34	:

001E	001E	003EC	.WORD	30,	30	:
001E	001E	003F0	.WORD	30,	30	:
001E	001E	003F4	.WORD	30,	30	:
001E	001E	003F8	.WORD	30,	30	:
001E	001E	003FC	.WORD	30,	30	:
001E	001E	00400	.WORD	30,	30	:
001E	001E	00404	.WORD	30,	30	:
001E	001E	00408	.WORD	30,	30	:
001E	001E	0040C	.WORD	30,	30	:
001E	001E	00410	.WORD	30,	30	:
001D	001D	00414	.WORD	29,	29	:
001E	001E	00418	.WORD	30,	30	:
001E	001E	0041C	.WORD	30,	30	:
001E	001E	00420	.WORD	30,	30	:
001E	001E	00424	.WORD	30,	30	:
001E	001E	00428	.WORD	30,	30	:
001E	001E	0042C	.WORD	30,	30	:
001E	001E	00430	.WORD	30,	30	:
001E	001E	00434	.WORD	30,	30	:
001E	001E	00438	.WORD	30,	30	:
001E	001E	0043C	.WORD	30,	30	:
001E	001E	00440	.WORD	30,	30	:
001E	001E	00444	.WORD	30,	30	:
001E	001E	00448	.WORD	30,	30	:
0021	0021	0044C	.WORD	33,	33	:
001E	001E	00450	.WORD	30,	30	:
001E	001E	00454	.WORD	30,	30	:
001E	001E	00458	.WORD	30,	30	:
001E	001E	0045C	.WORD	30,	30	:
001E	001E	00460	.WORD	30,	30	:
001E	001E	00464	.WORD	30,	30	:
0003	001E	00468	.WORD	30,	3	:
001F	0000	0046C	.WORD	0,	31	:
0020	0000	00470	.WORD	0,	32	:
0021	0000	00474	.WORD	0,	33	:
0022	0000	00478	.WORD	0,	34	:
001E	001E	0047C	.WORD	30,	30	:
001E	001E	00480	.WORD	30,	30	:
001E	001E	00484	.WORD	30,	30	:
001E	001E	00488	.WORD	30,	30	:
001E	001E	0048C	.WORD	30,	30	:
001E	001E	00490	.WORD	30,	30	:
001E	001E	00494	.WORD	30,	30	:
001E	001E	00498	.WORD	30,	30	:
001E	001E	0049C	.WORD	30,	30	:
001E	001E	004A0	.WORD	30,	30	:
001D	001D	004A4	.WORD	29,	29	:
001E	001E	004A8	.WORD	30,	30	:
001E	001E	004AC	.WORD	30,	30	:
001E	001E	004B0	.WORD	30,	30	:
001E	001E	004B4	.WORD	30,	30	:
001E	001E	004B8	.WORD	30,	30	:
001E	001E	004BC	.WORD	30,	30	:
001E	001E	004C0	.WORD	30,	30	:
001E	001E	004C4	.WORD	30,	30	:

001E	001E	004C8	.WORD	30,	30	:
001E	001E	004CC	.WORD	30,	30	:
001E	001E	004D0	.WORD	30,	30	:
001E	001E	004D4	.WORD	30,	30	:
001E	001E	004D8	.WORD	30,	30	:
0021	0021	004DC	.WORD	33,	33	:
001E	001E	004E0	.WORD	30,	30	:
001E	001E	004E4	.WORD	30,	30	:
001E	001E	004E8	.WORD	30,	30	:
001E	001E	004EC	.WORD	30,	30	:
001E	001E	004F0	.WORD	30,	30	:
001E	001E	004F4	.WORD	30,	30	:
0003	001E	004F8	.WORD	30,	3	:
001F	0000	004FC	.WORD	0,	31	:
0020	0000	00500	.WORD	0,	32	:
0021	0000	00504	.WORD	0,	33	:
0022	0000	00508	.WORD	0,	34	:
001E	001E	0050C	.WORD	30,	30	:
001E	001E	00510	.WORD	30,	30	:
001E	001E	00514	.WORD	30,	30	:
001E	001E	00518	.WORD	30,	30	:
001E	001E	0051C	.WORD	30,	30	:
001E	001E	00520	.WORD	30,	30	:
001E	001E	00524	.WORD	30,	30	:
001E	001E	00528	.WORD	30,	30	:
001E	001E	0052C	.WORD	30,	30	:
001E	001E	00530	.WORD	30,	30	:
001D	001D	00534	.WORD	29,	29	:
001E	001E	00538	.WORD	30,	30	:
001E	001E	0053C	.WORD	30,	30	:
001E	001E	00540	.WORD	30,	30	:
001E	001E	00544	.WORD	30,	30	:
001E	001E	00548	.WORD	30,	30	:
001E	001E	0054C	.WORD	30,	30	:
001E	001E	00550	.WORD	30,	30	:
001E	001E	00554	.WORD	30,	30	:
001E	001E	00558	.WORD	30,	30	:
001E	001E	0055C	.WORD	30,	30	:
001E	001E	00560	.WORD	30,	30	:
001E	001E	00564	.WORD	30,	30	:
001E	001E	00568	.WORD	30,	30	:
001E	001E	0056C	.WORD	30,	30	:
001E	001E	00570	.WORD	30,	30	:
001E	001E	00574	.WORD	30,	30	:
001E	001E	00578	.WORD	30,	30	:
001E	001E	0057C	.WORD	30,	30	:
001E	001E	00580	.WORD	30,	30	:
001E	001E	00584	.WORD	30,	30	:
0003	001E	00588	.WORD	30,	3	:
001F	0000	0058C	.WORD	0,	31	:
0020	0000	00590	.WORD	0,	32	:
0021	0000	00594	.WORD	0,	33	:
0022	0000	00598	.WORD	0,	34	:
001E	001E	0059C	.WORD	30,	30	:
001E	001E	005A0	.WORD	30,	30	:

ZZ-ENSAB-2.0 CRD\$Init_State_Table Routine J 7
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame J7 Sequence 911
01-04 CRD\$Init_State_Table Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (12) Page 26

001E	001E	005A4	.WORD	30,	30	:
001E	001E	005A8	.WORD	30,	30	:
001E	001E	005AC	.WORD	30,	30	:
001E	001E	005B0	.WORD	30,	30	:
001E	001E	005B4	.WORD	30,	30	:
001E	001E	005B8	.WORD	30,	30	:
001E	001E	005BC	.WORD	30,	30	:
001E	001E	005C0	.WORD	30,	30	:
001D	001D	005C4	.WORD	29,	29	:
001E	001E	005C8	.WORD	30,	30	:
001E	001E	005CC	.WORD	30,	30	:
001E	001E	005D0	.WORD	30,	30	:
001E	001E	005D4	.WORD	30,	30	:
001E	001E	005D8	.WORD	30,	30	:
001E	001E	005DC	.WORD	30,	30	:
001E	001E	005E0	.WORD	30,	30	:
001E	001E	005E4	.WORD	30,	30	:
001E	001E	005E8	.WORD	30,	30	:
001E	001E	005EC	.WORD	30,	30	:
001E	001E	005F0	.WORD	30,	30	:
001E	001E	005F4	.WORD	30,	30	:
001E	001E	005F8	.WORD	30,	30	:
001E	001E	005FC	.WORD	30,	30	:
001E	001E	00600	.WORD	30,	30	:
001E	001E	00604	.WORD	30,	30	:
001E	001E	00608	.WORD	30,	30	:
001E	001E	0060C	.WORD	30,	30	:
001E	001E	00610	.WORD	30,	30	:
001E	001E	00614	.WORD	30,	30	:
0003	001E	00618	.WORD	30,	3	:
001F	0000	0061C	.WORD	0,	31	:
0020	0000	00620	.WORD	0,	32	:
0021	0000	00624	.WORD	0,	33	:
0022	0000	00628	.WORD	0,	34	:
001E	001E	0062C	.WORD	30,	30	:
001E	001E	00630	.WORD	30,	30	:
001E	001E	00634	.WORD	30,	30	:
001E	001E	00638	.WORD	30,	30	:
001E	001E	0063C	.WORD	30,	30	:
001E	001E	00640	.WORD	30,	30	:
001E	001E	00644	.WORD	30,	30	:
001E	001E	00648	.WORD	30,	30	:
001D	001D	0064C	.WORD	29,	29	:
001D	001D	00650	.WORD	29,	29	:
001D	001D	00654	.WORD	29,	29	:
001E	001E	00658	.WORD	30,	30	:
001E	001E	0065C	.WORD	30,	30	:
001E	001E	00660	.WORD	30,	30	:
001E	001E	00664	.WORD	30,	30	:
001E	001E	00668	.WORD	30,	30	:
001E	001E	0066C	.WORD	30,	30	:
001E	001E	00670	.WORD	30,	30	:
001E	001E	00674	.WORD	30,	30	:
001E	001E	00678	.WORD	30,	30	:
001F	0001	0067C	.WORD	1,	31	:

ZZ-ENSAB-2.0 CRD\$Init_State_Table Routine K 7
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame K7 Sequence 912
01-04 CRD\$Init_State_Table Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (12) Page 27

0020	0001	00680	.WORD	1, 32	:
0020	0001	00684	.WORD	1, 32	:
0020	0001	00688	.WORD	1, 32	:
0021	0021	0068C	.WORD	33, 33	:
001E	001E	00690	.WORD	30, 30	:
001E	001E	00694	.WORD	30, 30	:
001E	001E	00698	.WORD	30, 30	:
001E	001E	0069C	.WORD	30, 30	:
001E	001E	006A0	.WORD	30, 30	:
001E	001E	006A4	.WORD	30, 30	:
0003	001E	006A8	.WORD	30, 3	:
001E	001E	006AC	.WORD	30, 30	:
001E	001E	006B0	.WORD	30, 30	:
001E	001E	006B4	.WORD	30, 30	:
001E	001E	006B8	.WORD	30, 30	:
001E	001E	006BC	.WORD	30, 30	:
001E	001E	006C0	.WORD	30, 30	:
001E	001E	006C4	.WORD	30, 30	:
001E	001E	006C8	.WORD	30, 30	:
001E	001E	006CC	.WORD	30, 30	:
001E	001E	006D0	.WORD	30, 30	:
001E	001E	006D4	.WORD	30, 30	:
001E	001E	006D8	.WORD	30, 30	:
001D	001D	006DC	.WORD	29, 29	:
001D	001D	006E0	.WORD	29, 29	:
001D	001D	006E4	.WORD	29, 29	:
001E	001E	006E8	.WORD	30, 30	:
001E	001E	006EC	.WORD	30, 30	:
001E	001E	006F0	.WORD	30, 30	:
001E	001E	006F4	.WORD	30, 30	:
001E	001E	006F8	.WORD	30, 30	:
001E	001E	006FC	.WORD	30, 30	:
001E	001E	00700	.WORD	30, 30	:
001E	001E	00704	.WORD	30, 30	:
001E	001E	00708	.WORD	30, 30	:
001F	0001	0070C	.WORD	1, 31	:
0020	0001	00710	.WORD	1, 32	:
0020	0001	00714	.WORD	1, 32	:
0020	0001	00718	.WORD	1, 32	:
0021	0021	0071C	.WORD	33, 33	:
001E	001E	00720	.WORD	30, 30	:
001E	001E	00724	.WORD	30, 30	:
001E	001E	00728	.WORD	30, 30	:
001E	001E	0072C	.WORD	30, 30	:
001E	001E	00730	.WORD	30, 30	:
001E	001E	00734	.WORD	30, 30	:
0003	001E	00738	.WORD	30, 3	:
001F	0000	0073C	.WORD	0, 31	:
0020	0000	00740	.WORD	0, 32	:
0021	0000	00744	.WORD	0, 33	:
0022	0000	00748	.WORD	0, 34	:
001E	001E	0074C	.WORD	30, 30	:
001E	001E	00750	.WORD	30, 30	:
001E	001E	00754	.WORD	30, 30	:
001E	001E	00758	.WORD	30, 30	:

001E	001E	0075C	.WORD	30,	30	:
001E	001E	00760	.WORD	30,	30	:
001E	001E	00764	.WORD	30,	30	:
001E	001E	00768	.WORD	30,	30	:
001E	001E	0076C	.WORD	30,	30	:
001E	001E	00770	.WORD	30,	30	:
001D	001D	00774	.WORD	29,	29	:
001E	001E	00778	.WORD	30,	30	:
001E	001E	0077C	.WORD	30,	30	:
001E	001E	00780	.WORD	30,	30	:
001E	001E	00784	.WORD	30,	30	:
001E	001E	00788	.WORD	30,	30	:
001E	001E	0078C	.WORD	30,	30	:
001E	001E	00790	.WORD	30,	30	:
001E	001E	00794	.WORD	30,	30	:
001E	001E	00798	.WORD	30,	30	:
001E	001E	0079C	.WORD	30,	30	:
001E	001E	007A0	.WORD	30,	30	:
001E	001E	007A4	.WORD	30,	30	:
001E	001E	007A8	.WORD	30,	30	:
0021	0021	007AC	.WORD	33,	33	:
001E	001E	007B0	.WORD	30,	30	:
001E	001E	007B4	.WORD	30,	30	:
001E	001E	007B8	.WORD	30,	30	:
001E	001E	007BC	.WORD	30,	30	:
001E	001E	007C0	.WORD	30,	30	:
001E	001E	007C4	.WORD	30,	30	:
0003	001E	007C8	.WORD	30,	3	:
001F	0000	007CC	.WORD	0,	31	:
0020	0000	007D0	.WORD	0,	32	:
0021	0000	007D4	.WORD	0,	33	:
0022	0000	007D8	.WORD	0,	34	:
001E	001E	007DC	.WORD	30,	30	:
001E	001E	007E0	.WORD	30,	30	:
001E	001E	007E4	.WORD	30,	30	:
001E	001E	007E8	.WORD	30,	30	:
001E	001E	007EC	.WORD	30,	30	:
001E	001E	007F0	.WORD	30,	30	:
001E	001E	007F4	.WORD	30,	30	:
001E	001E	007F8	.WORD	30,	30	:
001E	001E	007FC	.WORD	30,	30	:
001E	001E	00800	.WORD	30,	30	:
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001E	001E	00808	.WORD	30,	30	:
001E	001E	0080C	.WORD	30,	30	:
001E	001E	00810	.WORD	30,	30	:
001E	001E	00814	.WORD	30,	30	:
001E	001E	00818	.WORD	30,	30	:
001E	001E	0081C	.WORD	30,	30	:
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001E	001E	00828	.WORD	30,	30	:
001E	001E	0082C	.WORD	30,	30	:
001E	001E	00830	.WORD	30,	30	:
001E	001E	00834	.WORD	30,	30	:

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001E	001E	00844	.WORD	30, 30	:
001E	001E	00848	.WORD	30, 30	:
001E	001E	0084C	.WORD	30, 30	:
001E	001E	00850	.WORD	30, 30	:
001E	001E	00854	.WORD	30, 30	:
0003	001E	00858	.WORD	30, 3	:
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0021	0000	00864	.WORD	0, 33	:
0022	0000	00868	.WORD	0, 34	:
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001E	001E	00874	.WORD	30, 30	:
001E	001E	00878	.WORD	30, 30	:
001E	001E	0087C	.WORD	30, 30	:
001E	001E	00880	.WORD	30, 30	:
001E	001E	00884	.WORD	30, 30	:
001E	001E	00888	.WORD	30, 30	:
001E	001E	0088C	.WORD	30, 30	:
001E	001E	00890	.WORD	30, 30	:
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001E	001E	00898	.WORD	30, 30	:
001E	001E	0089C	.WORD	30, 30	:
001E	001E	008A0	.WORD	30, 30	:
001E	001E	008A4	.WORD	30, 30	:
001E	001E	008A8	.WORD	30, 30	:
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001E	001E	008B0	.WORD	30, 30	:
001E	001E	008B4	.WORD	30, 30	:
001E	001E	008B8	.WORD	30, 30	:
001E	001E	008BC	.WORD	30, 30	:
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001E	001E	008C4	.WORD	30, 30	:
001E	001E	008C8	.WORD	30, 30	:
0017	0000	008CC	.WORD	0, 23	:
001E	001E	008D0	.WORD	30, 30	:
001E	001E	008D4	.WORD	30, 30	:
001E	001E	008D8	.WORD	30, 30	:
001E	001E	008DC	.WORD	30, 30	:
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001E	001E	008E4	.WORD	30, 30	:
0003	001E	008E8	.WORD	30, 3	:
001E	001E	008EC	.WORD	30, 30	:
001E	001E	008F0	.WORD	30, 30	:
001E	001E	008F4	.WORD	30, 30	:
001E	001E	008F8	.WORD	30, 30	:
001E	001E	008FC	.WORD	30, 30	:
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001E	001E	00904	.WORD	30, 30	:
001E	001E	00908	.WORD	30, 30	:
001E	001E	0090C	.WORD	30, 30	:
001E	001E	00910	.WORD	30, 30	:

ZZ-ENSAB-2.0 CRD\$Init_State_Table Routine N 7
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame N7 Sequence 915
01-04 CRD\$Init_State_Table Routine 3-Jan-1985 17:02:14 (DS.CRD.V020)CRDSTATE.B32;1 (12) Page 30

001E	001E	00914	.WORD	30, 30	:
001E	001E	00918	.WORD	30, 30	:
001E	001E	0091C	.WORD	30, 30	:
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0009	0000	00924	.WORD	0, 9	:
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001E	001E	00934	.WORD	30, 30	:
001E	001E	00938	.WORD	30, 30	:
001E	001E	0093C	.WORD	30, 30	:
001E	001E	00940	.WORD	30, 30	:
001E	001E	00944	.WORD	30, 30	:
001E	001E	00948	.WORD	30, 30	:
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001E	001E	00950	.WORD	30, 30	:
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001E	001E	00958	.WORD	30, 30	:
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001E	001E	00974	.WORD	30, 30	:
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0021	0000	00984	.WORD	0, 33	:
0022	0000	00988	.WORD	0, 34	:
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001E	001E	009B0	.WORD	30, 30	:
0009	0000	009B4	.WORD	0, 9	:
001E	001E	009B8	.WORD	30, 30	:
001E	001E	009BC	.WORD	30, 30	:
001E	001E	009C0	.WORD	30, 30	:
001E	001E	009C4	.WORD	30, 30	:
001E	001E	009C8	.WORD	30, 30	:
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001E	001E	009E4	.WORD	30, 30	:
001E	001E	009E8	.WORD	30, 30	:
0017	0000	009EC	.WORD	0, 23	:

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001E	001E	009F8	.WORD	30,	30	:
001E	001E	009FC	.WORD	30,	30	:
001E	001E	00A00	.WORD	30,	30	:
001E	001E	00A04	.WORD	30,	30	:
0003	001E	00A08	.WORD	30,	3	:
001E	001E	00A0C	.WORD	30,	30	:
001E	001E	00A10	.WORD	30,	30	:
001E	001E	00A14	.WORD	30,	30	:
001E	001E	00A18	.WORD	30,	30	:
001E	001E	00A1C	.WORD	30,	30	:
001E	001E	00A20	.WORD	30,	30	:
001E	001E	00A24	.WORD	30,	30	:
001E	001E	00A28	.WORD	30,	30	:
001E	001E	00A2C	.WORD	30,	30	:
001E	001E	00A30	.WORD	30,	30	:
001E	001E	00A34	.WORD	30,	30	:
001E	001E	00A38	.WORD	30,	30	:
001E	001E	00A3C	.WORD	30,	30	:
001E	001E	00A40	.WORD	30,	30	:
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001E	001E	00A48	.WORD	30,	30	:
001E	001E	00A4C	.WORD	30,	30	:
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001E	001E	00A54	.WORD	30,	30	:
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001E	001E	00A60	.WORD	30,	30	:
001E	001E	00A64	.WORD	30,	30	:
001E	001E	00A68	.WORD	30,	30	:
001E	001E	00A6C	.WORD	30,	30	:
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001E	001E	00A74	.WORD	30,	30	:
001E	001E	00A78	.WORD	30,	30	:
0021	0021	00A7C	.WORD	33,	33	:
001E	001E	00A80	.WORD	30,	30	:
001E	001E	00A84	.WORD	30,	30	:
001E	001E	00A88	.WORD	30,	30	:
001E	001E	00A8C	.WORD	30,	30	:
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001E	001E	00A94	.WORD	30,	30	:
0003	001E	00A98	.WORD	30,	3	:
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0021	0000	00AA4	.WORD	0,	33	:
0022	0000	00AA8	.WORD	0,	34	:
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001E	001E	00AC4	.WORD	30,	30	:
001E	001E	00AC8	.WORD	30,	30	:

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001E	001E	00AD0	.WORD	30,	30	:
001D	001D	00AD4	.WORD	29,	29	:
001E	001E	00AD8	.WORD	30,	30	:
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001E	001E	00B04	.WORD	30,	30	:
001E	001E	00B08	.WORD	30,	30	:
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001E	001E	00B14	.WORD	30,	30	:
001E	001E	00B18	.WORD	30,	30	:
001E	001E	00B1C	.WORD	30,	30	:
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0003	001E	00B28	.WORD	30,	3	:
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0022	0000	00B38	.WORD	0,	34	:
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001E	001E	00B44	.WORD	30,	30	:
001E	001E	00B48	.WORD	30,	30	:
001E	001E	00B4C	.WORD	30,	30	:
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001E	001E	00B5C	.WORD	30,	30	:
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001E	001E	00B68	.WORD	30,	30	:
001E	001E	00B6C	.WORD	30,	30	:
001E	001E	00B70	.WORD	30,	30	:
001E	001E	00B74	.WORD	30,	30	:
001E	001E	00B78	.WORD	30,	30	:
001E	001E	00B7C	.WORD	30,	30	:
001E	001E	00B80	.WORD	30,	30	:
001E	001E	00B84	.WORD	30,	30	:
001E	001E	00B88	.WORD	30,	30	:
001E	001E	00B8C	.WORD	30,	30	:
001E	001E	00B90	.WORD	30,	30	:
001E	001E	00B94	.WORD	30,	30	:
001E	001E	00B98	.WORD	30,	30	:
0021	0021	00B9C	.WORD	33,	33	:
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001E	001E	00BA4	.WORD	30,	30	:

001E	001E	00BA8	.WORD	30, 30	:
001E	001E	00BAC	.WORD	30, 30	:
001E	001E	00BB0	.WORD	30, 30	:
001D	0000	00BB4	.WORD	0, 29	:
0003	001E	00BB8	.WORD	30, 3	:
001F	0000	00BBC	.WORD	0, 31	:
0020	0000	00BC0	.WORD	0, 32	:
0021	0000	00BC4	.WORD	0, 33	:
0022	0000	00BC8	.WORD	0, 34	:
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001E	001E	00BD0	.WORD	30, 30	:
001E	001E	00BD4	.WORD	30, 30	:
001E	001E	00BD8	.WORD	30, 30	:
001E	001E	00BDC	.WORD	30, 30	:
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001E	001E	00BE8	.WORD	30, 30	:
001D	001D	00BEC	.WORD	29, 29	:
001D	001D	00BF0	.WORD	29, 29	:
001D	001D	00BF4	.WORD	29, 29	:
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001E	001E	00C14	.WORD	30, 30	:
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0020	0001	00C2C	.WORD	1, 32	:
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001E	001E	00C44	.WORD	30, 30	:
0003	001E	00C48	.WORD	30, 3	:
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0020	0000	00C50	.WORD	0, 32	:
0021	0000	00C54	.WORD	0, 33	:
0022	0000	00C58	.WORD	0, 34	:
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001E	001E	00C68	.WORD	30, 30	:
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001E	001E	00C78	.WORD	30, 30	:
001D	001D	00C7C	.WORD	29, 29	:
001D	001D	00C80	.WORD	29, 29	:

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001E	001E	00C90	.WORD	30,	30	:
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001E	001E	00C98	.WORD	30,	30	:
001E	001E	00C9C	.WORD	30,	30	:
001E	001E	00CA0	.WORD	30,	30	:
001E	001E	00CA4	.WORD	30,	30	:
001E	001E	00CA8	.WORD	30,	30	:
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0020	0001	00CB4	.WORD	1,	32	:
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001E	001E	00CC8	.WORD	30,	30	:
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001E	001E	00CD0	.WORD	30,	30	:
001E	001E	00CD4	.WORD	30,	30	:
0003	001E	00CD8	.WORD	30,	3	:
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0020	0000	00CE0	.WORD	0,	32	:
0021	0000	00CE4	.WORD	0,	33	:
0022	0000	00CE8	.WORD	0,	34	:
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001E	001E	00CF4	.WORD	30,	30	:
001E	001E	00CF8	.WORD	30,	30	:
001E	001E	00CFC	.WORD	30,	30	:
001E	001E	00D00	.WORD	30,	30	:
001E	001E	00D04	.WORD	30,	30	:
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001E	001E	00D0C	.WORD	30,	30	:
001E	001E	00D10	.WORD	30,	30	:
0009	0000	00D14	.WORD	0,	9	:
001E	001E	00D18	.WORD	30,	30	:
001E	001E	00D1C	.WORD	30,	30	:
001E	001E	00D20	.WORD	30,	30	:
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001E	001E	00D34	.WORD	30,	30	:
001E	001E	00D38	.WORD	30,	30	:
001E	001E	00D3C	.WORD	30,	30	:
001E	001E	00D40	.WORD	30,	30	:
001E	001E	00D44	.WORD	30,	30	:
001E	001E	00D48	.WORD	30,	30	:
0017	0000	00D4C	.WORD	0,	23	:
001E	001E	00D50	.WORD	30,	30	:
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001E	001E	00D58	.WORD	30,	30	:
001E	001E	00D5C	.WORD	30,	30	:

001E	001E	00D60	.WORD	30,	30	:
001E	001E	00D64	.WORD	30,	30	:
0003	001E	00D68	.WORD	30,	3	:
001E	001E	00D6C	.WORD	30,	30	:
001E	001E	00D70	.WORD	30,	30	:
001E	001E	00D74	.WORD	30,	30	:
001E	001E	00D78	.WORD	30,	30	:
001E	001E	00D7C	.WORD	30,	30	:
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001E	001E	00D84	.WORD	30,	30	:
001E	001E	00D88	.WORD	30,	30	:
001E	001E	00D8C	.WORD	30,	30	:
001E	001E	00D90	.WORD	30,	30	:
001E	001E	00D94	.WORD	30,	30	:
001E	001E	00D98	.WORD	30,	30	:
001E	001E	00D9C	.WORD	30,	30	:
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001E	001E	00DD4	.WORD	30,	30	:
001E	001E	00DD8	.WORD	30,	30	:
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001E	001E	00DE4	.WORD	30,	30	:
001E	001E	00DE8	.WORD	30,	30	:
001E	001E	00DEC	.WORD	30,	30	:
001E	001E	00DF0	.WORD	30,	30	:
001E	001E	00DF4	.WORD	30,	30	:
0003	001E	00DF8	.WORD	30,	3	:
001E	001E	00DFC	.WORD	30,	30	:
001E	001E	00E00	.WORD	30,	30	:
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001E	001E	00E08	.WORD	30,	30	:
001E	001E	00E0C	.WORD	30,	30	:
001E	001E	00E10	.WORD	30,	30	:
001E	001E	00E14	.WORD	30,	30	:
001E	001E	00E18	.WORD	30,	30	:
001E	001E	00E1C	.WORD	30,	30	:
001E	001E	00E20	.WORD	30,	30	:
001E	001E	00E24	.WORD	30,	30	:
001E	001E	00E28	.WORD	30,	30	:
001E	001E	00E2C	.WORD	30,	30	:
001E	001E	00E30	.WORD	30,	30	:
001D	001D	00E34	.WORD	29,	29	:
001E	001E	00E38	.WORD	30,	30	:

001E	001E	00E3C	.WORD	30,	30	:
001E	001E	00E40	.WORD	30,	30	:
001E	001E	00E44	.WORD	30,	30	:
001E	001E	00E48	.WORD	30,	30	:
001E	001E	00E4C	.WORD	30,	30	:
001E	001E	00E50	.WORD	30,	30	:
001E	001E	00E54	.WORD	30,	30	:
001E	001E	00E58	.WORD	30,	30	:
001E	001E	00E5C	.WORD	30,	30	:
001E	001E	00E60	.WORD	30,	30	:
001E	001E	00E64	.WORD	30,	30	:
001E	001E	00E68	.WORD	30,	30	:
0021	0021	00E6C	.WORD	33,	33	:
001E	001E	00E70	.WORD	30,	30	:
001E	001E	00E74	.WORD	30,	30	:
001E	001E	00E78	.WORD	30,	30	:
001E	001E	00E7C	.WORD	30,	30	:
001E	001E	00E80	.WORD	30,	30	:
001E	001E	00E84	.WORD	30,	30	:
0003	001E	00E88	.WORD	30,	3	:
001F	0000	00E8C	.WORD	0,	31	:
0020	0000	00E90	.WORD	0,	32	:
0021	0000	00E94	.WORD	0,	33	:
0022	0000	00E98	.WORD	0,	34	:
001E	001E	00E9C	.WORD	30,	30	:
001E	001E	00EA0	.WORD	30,	30	:
001E	001E	00EA4	.WORD	30,	30	:
001E	001E	00EA8	.WORD	30,	30	:
001E	001E	00EAC	.WORD	30,	30	:
001E	001E	00EB0	.WORD	30,	30	:
001E	001E	00EB4	.WORD	30,	30	:
001E	001E	00EB8	.WORD	30,	30	:
001E	001E	00EBC	.WORD	30,	30	:
001E	001E	00EC0	.WORD	30,	30	:
001E	001E	00EC4	.WORD	30,	30	:
001E	001E	00EC8	.WORD	30,	30	:
001E	001E	00ECC	.WORD	30,	30	:
001E	001E	00ED0	.WORD	30,	30	:
001E	001E	00ED4	.WORD	30,	30	:
001E	001E	00ED8	.WORD	30,	30	:
001E	001E	00EDC	.WORD	30,	30	:
001E	001E	00EE0	.WORD	30,	30	:
001E	001E	00EE4	.WORD	30,	30	:
001E	001E	00EE8	.WORD	30,	30	:
001E	001E	00EEC	.WORD	30,	30	:
001E	001E	00EF0	.WORD	30,	30	:
001E	001E	00EF4	.WORD	30,	30	:
001E	001E	00EF8	.WORD	30,	30	:
001E	001E	00EFC	.WORD	30,	30	:
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001E	001E	00F04	.WORD	30,	30	:
001E	001E	00F08	.WORD	30,	30	:
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001E	001E	00F10	.WORD	30,	30	:
001E	001E	00F14	.WORD	30,	30	:

001E	001E	00F18	.WORD	30, 30	:
001E	001E	00F1C	.WORD	30, 30	:
001E	001E	00F20	.WORD	30, 30	:
001E	001E	00F24	.WORD	30, 30	:
001E	001E	00F28	.WORD	30, 30	:
001E	001E	00F2C	.WORD	30, 30	:
001E	001E	00F30	.WORD	30, 30	:
001E	001E	00F34	.WORD	30, 30	:
001E	001E	00F38	.WORD	30, 30	:
001E	001E	00F3C	.WORD	30, 30	:
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001E	001E	00F44	.WORD	30, 30	:
001E	001E	00F48	.WORD	30, 30	:
001E	001E	00F4C	.WORD	30, 30	:
001E	001E	00F50	.WORD	30, 30	:
001D	001D	00F54	.WORD	29, 29	:
001E	001E	00F58	.WORD	30, 30	:
001E	001E	00F5C	.WORD	30, 30	:
001E	001E	00F60	.WORD	30, 30	:
001E	001E	00F64	.WORD	30, 30	:
001E	001E	00F68	.WORD	30, 30	:
001E	001E	00F6C	.WORD	30, 30	:
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001E	001E	00F78	.WORD	30, 30	:
001E	001E	00F7C	.WORD	30, 30	:
001E	001E	00F80	.WORD	30, 30	:
001E	001E	00F84	.WORD	30, 30	:
001E	001E	00F88	.WORD	30, 30	:
0022	0022	00F8C	.WORD	34, 34	:
001E	001E	00F90	.WORD	30, 30	:
001E	001E	00F94	.WORD	30, 30	:
001E	001E	00F98	.WORD	30, 30	:
001E	001E	00F9C	.WORD	30, 30	:
001E	001E	00FA0	.WORD	30, 30	:
001E	001E	00FA4	.WORD	30, 30	:
0003	001E	00FA8	.WORD	30, 3	:
001F	0000	00FAC	.WORD	0, 31	:
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0021	0000	00FB4	.WORD	0, 33	:
0022	0000	00FB8	.WORD	0, 34	:
001E	001E	00FBC	.WORD	30, 30	:
001E	001E	00FC0	.WORD	30, 30	:
001E	001E	00FC4	.WORD	30, 30	:
001E	001E	00FC8	.WORD	30, 30	:
001E	001E	00FCC	.WORD	30, 30	:
001E	001E	00FD0	.WORD	30, 30	:
001E	001E	00FD4	.WORD	30, 30	:
001E	001E	00FD8	.WORD	30, 30	:
001E	001E	00FDC	.WORD	30, 30	:
001E	001E	00FE0	.WORD	30, 30	:
001D	001D	00FE4	.WORD	29, 29	:
001E	001E	00FE8	.WORD	30, 30	:
001E	001E	00FEC	.WORD	30, 30	:
001E	001E	00FF0	.WORD	30, 30	:

001E	001E	00FF4	.WORD	30,	30	:
001E	001E	00FF8	.WORD	30,	30	:
001E	001E	00FFC	.WORD	30,	30	:
001E	001E	01000	.WORD	30,	30	:
001E	001E	01004	.WORD	30,	30	:
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001E	001E	0100C	.WORD	30,	30	:
001E	001E	01010	.WORD	30,	30	:
001E	001E	01014	.WORD	30,	30	:
001E	001E	01018	.WORD	30,	30	:
0021	0021	0101C	.WORD	33,	33	:
001E	001E	01020	.WORD	30,	30	:
001E	001E	01024	.WORD	30,	30	:
001E	001E	01028	.WORD	30,	30	:
001E	001E	0102C	.WORD	30,	30	:
001E	001E	01030	.WORD	30,	30	:
001E	001E	01034	.WORD	30,	30	:
0003	001E	01038	.WORD	30,	3	:
001F	0000	0103C	.WORD	0,	31	:
0020	0000	01040	.WORD	0,	32	:
0021	0000	01044	.WORD	0,	33	:
0022	0000	01048	.WORD	0,	34	:
001E	001E	0104C	.WORD	30,	30	:
001E	001E	01050	.WORD	30,	30	:
001E	001E	01054	.WORD	30,	30	:
001E	001E	01058	.WORD	30,	30	:
0003	0000	0105C	.WORD	0,	3	:
001E	001E	01060	.WORD	30,	30	:
001E	001E	01064	.WORD	30,	30	:
001E	001E	01068	.WORD	30,	30	:
001E	001E	0106C	.WORD	30,	30	:
001E	001E	01070	.WORD	30,	30	:
001E	001E	01074	.WORD	30,	30	:
001F	001E	01078	.WORD	30,	30	:
001E	001E	0107C	.WORD	30,	30	:
001E	001E	01080	.WORD	30,	30	:
001E	001E	01084	.WORD	30,	30	:
001E	001E	01088	.WORD	30,	30	:
001E	001E	0108C	.WORD	30,	30	:
001E	001E	01090	.WORD	30,	30	:
001E	001E	01094	.WORD	30,	30	:
001E	001E	01098	.WORD	30,	30	:
001E	001E	0109C	.WORD	30,	30	:
001E	001E	010A0	.WORD	30,	30	:
001E	001E	010A4	.WORD	30,	30	:
001E	001E	010A8	.WORD	30,	30	:
001E	001E	010AC	.WORD	30,	30	:
001E	001E	010B0	.WORD	30,	30	:
001E	001E	010B4	.WORD	30,	30	:
001E	001E	010B8	.WORD	30,	30	:
001E	001E	010BC	.WORD	30,	30	:
001E	001E	010C0	.WORD	30,	30	:
001E	001E	010C4	.WORD	30,	30	:
001E	001E	010C8	.WORD	30,	30	:
001E	001E	010CC	.WORD	30,	30	:

001E	001E	010D0	.WORD	30,	30	:
001E	001E	010D4	.WORD	30,	30	:
001E	001E	010D8	.WORD	30,	30	:
001E	001E	010DC	.WORD	30,	30	:
001E	001E	010E0	.WORD	30,	30	:
001E	001E	010E4	.WORD	30,	30	:
001E	001E	010E8	.WORD	30,	30	:
001E	001E	010EC	.WORD	30,	30	:
001E	001E	010F0	.WORD	30,	30	:
001E	001E	010F4	.WORD	30,	30	:
001E	001E	010F8	.WORD	30,	30	:
001D	001D	010FC	.WORD	29,	29	:
001D	001D	01100	.WORD	29,	29	:
001D	001D	01104	.WORD	29,	29	:
001E	001E	01108	.WORD	30,	30	:
001E	001E	0110C	.WORD	30,	30	:
001E	001E	01110	.WORD	30,	30	:
001E	001E	01114	.WORD	30,	30	:
001E	001E	01118	.WORD	30,	30	:
001E	001E	0111C	.WORD	30,	30	:
001E	001E	01120	.WORD	30,	30	:
001E	001E	01124	.WORD	30,	30	:
001E	001E	01128	.WORD	30,	30	:
001F	0001	0112C	.WORD	1,	31	:
0020	0001	01130	.WORD	1,	32	:
0020	0001	01134	.WORD	1,	32	:
0020	0001	01138	.WORD	1,	32	:
0021	0021	0113C	.WORD	33,	33	:
001E	001E	01140	.WORD	30,	30	:
001E	001E	01144	.WORD	30,	30	:
001E	001E	01148	.WORD	30,	30	:
001E	001E	0114C	.WORD	30,	30	:
001E	001E	01150	.WORD	30,	30	:
001E	001E	01154	.WORD	30,	30	:
0003	001E	01158	.WORD	30,	3	:
001F	0000	0115C	.WORD	0,	31	:
0020	0000	01160	.WORD	0,	32	:
0021	0000	01164	.WORD	0,	33	:
0022	0000	01168	.WORD	0,	34	:
001E	001E	0116C	.WORD	30,	30	:
001E	001E	01170	.WORD	30,	30	:
001E	001E	01174	.WORD	30,	30	:
001E	001E	01178	.WORD	30,	30	:
001E	001E	0117C	.WORD	30,	30	:
001E	001E	01180	.WORD	30,	30	:
001E	001E	01184	.WORD	30,	30	:
001E	001E	01188	.WORD	30,	30	:
001D	001D	0118C	.WORD	29,	29	:
001D	001D	01190	.WORD	29,	29	:
001D	001D	01194	.WORD	29,	29	:
001E	001E	01198	.WORD	30,	30	:
001E	001E	0119C	.WORD	30,	30	:
001E	001E	011A0	.WORD	30,	30	:
001E	001E	011A4	.WORD	30,	30	:
001E	001E	011A8	.WORD	30,	30	:

001E	001E	011AC	.WORD	30, 30	:
001E	001E	011B0	.WORD	30, 30	:
001E	001E	011B4	.WORD	30, 30	:
001E	001E	011B8	.WORD	30, 30	:
001F	0001	011BC	.WORD	1, 31	:
0020	0001	011C0	.WORD	1, 32	:
0020	0001	011C4	.WORD	1, 32	:
0020	0001	011C8	.WORD	1, 32	:
0021	0021	011CC	.WORD	33, 33	:
001E	001E	011D0	.WORD	30, 30	:
001E	001E	011D4	.WORD	30, 30	:
001E	001E	011D8	.WORD	30, 30	:
001E	001E	011DC	.WORD	30, 30	:
001E	001E	011E0	.WORD	30, 30	:
001E	001E	011E4	.WORD	30, 30	:
0003	001E	011E8	.WORD	30, 3	:
001F	0000	011EC	.WORD	0, 31	:
0020	0000	011F0	.WORD	0, 32	:
0021	0000	011F4	.WORD	0, 33	:
0022	0000	011F8	.WORD	0, 34	:
001E	001E	011FC	.WORD	30, 30	:
001E	001E	01200	.WORD	30, 30	:
001E	001E	01204	.WORD	30, 30	:
001E	001E	01208	.WORD	30, 30	:
001E	001E	0120C	.WORD	30, 30	:
001E	001E	01210	.WORD	30, 30	:
001E	001E	01214	.WORD	30, 30	:
001E	001E	01218	.WORD	30, 30	:
001D	001D	0121C	.WORD	29, 29	:
001D	001D	01220	.WORD	29, 29	:
001D	001D	01224	.WORD	29, 29	:
001E	001E	01228	.WORD	30, 30	:
001E	001E	0122C	.WORD	30, 30	:
001E	001E	01230	.WORD	30, 30	:
001E	001E	01234	.WORD	30, 30	:
001E	001E	01238	.WORD	30, 30	:
001E	001E	0123C	.WORD	30, 30	:
001E	001E	01240	.WORD	30, 30	:
001E	001E	01244	.WORD	30, 30	:
001E	001E	01248	.WORD	30, 30	:
001F	0001	0124C	.WORD	1, 31	:
0020	0001	01250	.WORD	1, 32	:
0020	0001	01254	.WORD	1, 32	:
0020	0001	01258	.WORD	1, 32	:
0021	0021	0125C	.WORD	33, 33	:
001E	001E	01260	.WORD	30, 30	:
001E	001E	01264	.WORD	30, 30	:
001E	001E	01268	.WORD	30, 30	:
001E	001E	0126C	.WORD	30, 30	:
001E	001E	01270	.WORD	30, 30	:
001E	001E	01274	.WORD	30, 30	:
0003	001E	01278	.WORD	30, 3	:
001F	0000	0127C	.WORD	0, 31	:
0020	0000	01280	.WORD	0, 32	:
0021	0000	01284	.WORD	0, 33	:

0022	0000	01288	.WORD	0, 34	:
001E	001E	0128C	.WORD	30, 30	:
001E	001E	01290	.WORD	30, 30	:
001E	001E	01294	.WORD	30, 30	:
001E	001E	01298	.WORD	30, 30	:
001E	001E	0129C	.WORD	30, 30	:
001E	001E	012A0	.WORD	30, 30	:
001E	001E	012A4	.WORD	30, 30	:
001E	001E	012A8	.WORD	30, 30	:
001D	001D	012AC	.WORD	29, 29	:
001D	001D	012B0	.WORD	29, 29	:
001D	001D	012B4	.WORD	29, 29	:
001E	001E	012B8	.WORD	30, 30	:
001E	001E	012BC	.WORD	30, 30	:
001E	001E	012C0	.WORD	30, 30	:
001E	001E	012C4	.WORD	30, 30	:
001E	001E	012C8	.WORD	30, 30	:
001E	001E	012CC	.WORD	30, 30	:
001E	001E	012D0	.WORD	30, 30	:
001E	001E	012D4	.WORD	30, 30	:
001E	001E	012D8	.WORD	30, 30	:
001F	0001	012DC	.WORD	1, 31	:
0020	0001	012E0	.WORD	1, 32	:
0020	0001	012E4	.WORD	1, 32	:
0020	0001	012E8	.WORD	1, 32	:
0021	0021	012EC	.WORD	33, 33	:
001E	001E	012F0	.WORD	30, 30	:
001E	001E	012F4	.WORD	30, 30	:
001E	001E	012F8	.WORD	30, 30	:
001E	001E	012FC	.WORD	30, 30	:
001E	001E	01300	.WORD	30, 30	:
001E	001E	01304	.WORD	30, 30	:
0003	001E	01308	.WORD	30, 3	:
001F	0000	0130C	.WORD	0, 31	:
0020	0000	01310	.WORD	0, 32	:
0021	0000	01314	.WORD	0, 33	:
0022	0000	01318	.WORD	0, 34	:
001E	001E	0131C	.WORD	30, 30	:
001E	001E	01320	.WORD	30, 30	:
001E	001E	01324	.WORD	30, 30	:
001E	001E	01328	.WORD	30, 30	:
001E	001E	0132C	.WORD	30, 30	:
001E	001E	01330	.WORD	30, 30	:
001E	001E	01334	.WORD	30, 30	:
001E	001E	01338	.WORD	30, 30	:
001D	001D	0133C	.WORD	29, 29	:
001D	001D	01340	.WORD	29, 29	:
001D	001D	01344	.WORD	29, 29	:
001E	001E	01348	.WORD	30, 30	:
001E	001E	0134C	.WORD	30, 30	:
001E	001E	01350	.WORD	30, 30	:
001E	001E	01354	.WORD	30, 30	:
001E	001E	01358	.WORD	30, 30	:
001E	001E	0135C	.WORD	30, 30	:
001E	001E	01360	.WORD	30, 30	:

001E	001E	01364	.WORD	30, 30	:
001E	001E	01368	.WORD	30, 30	:
001F	0001	0136C	.WORD	1, 31	:
0020	0001	01370	.WORD	1, 32	:
0020	0001	01374	.WORD	1, 32	:
0020	0001	01378	.WORD	1, 32	:
0021	0021	0137C	.WORD	33, 33	:
001E	001E	01380	.WORD	30, 30	:
001E	001E	01384	.WORD	30, 30	:
001E	001E	01388	.WORD	30, 30	:
001E	001E	0138C	.WORD	30, 30	:
001E	001E	01390	.WORD	30, 30	:
001E	001E	01394	.WORD	30, 30	:
0003	001E	01398	.WORD	30, 3	:
001F	0000	0139C	.WORD	0, 31	:
0020	0000	013A0	.WORD	0, 32	:
0021	0000	013A4	.WORD	0, 33	:
0022	0000	013A8	.WORD	0, 34	:
001E	001E	013AC	.WORD	30, 30	:
001E	001E	013B0	.WORD	30, 30	:
001E	001E	013B4	.WORD	30, 30	:
001E	001E	013B8	.WORD	30, 30	:
001E	001E	013BC	.WORD	30, 30	:
001E	001E	013C0	.WORD	30, 30	:
001E	001E	013C4	.WORD	30, 30	:
001E	001E	013C8	.WORD	30, 30	:
001D	001D	013CC	.WORD	29, 29	:
001D	001D	013D0	.WORD	29, 29	:
001D	001D	013D4	.WORD	29, 29	:
001E	001E	013D8	.WORD	30, 30	:
001E	001E	013DC	.WORD	30, 30	:
001E	001E	013E0	.WORD	30, 30	:
001E	001E	013E4	.WORD	30, 30	:
001E	001E	013E8	.WORD	30, 30	:
001E	001E	013EC	.WORD	30, 30	:
001E	001E	013F0	.WORD	30, 30	:
001E	001E	013F4	.WORD	30, 30	:
001E	001E	013F8	.WORD	30, 30	:
001F	0001	013FC	.WORD	1, 31	:
0020	0001	01400	.WORD	1, 32	:
0020	0001	01404	.WORD	1, 32	:
0020	0001	01408	.WORD	1, 32	:
0021	0021	0140C	.WORD	33, 33	:
001E	001E	01410	.WORD	30, 30	:
001E	001E	01414	.WORD	30, 30	:
001E	001E	01418	.WORD	30, 30	:
001E	001E	0141C	.WORD	30, 30	:
001E	001E	01420	.WORD	30, 30	:
001E	001E	01424	.WORD	30, 30	:
0003	001E	01428	.WORD	30, 3	:
001F	0000	0142C	.WORD	0, 31	:
0020	0000	01430	.WORD	0, 32	:
0021	0000	01434	.WORD	0, 33	:
0022	0000	01438	.WORD	0, 34	:
001E	001E	0143C	.WORD	30, 30	:

ZZ-ENSAB-2.0 CRD\$Init_State_Table Routine N 8
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame N8 Sequence 928
01-04 CRD\$Init_State_Table Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (12) Page 43

001E	001E	01440	.WORD	30,	30	:
001E	001E	01444	.WORD	30,	30	:
001E	001E	01448	.WORD	30,	30	:
001E	001E	0144C	.WORD	30,	30	:
001E	001E	01450	.WORD	30,	30	:
001E	001E	01454	.WORD	30,	30	:
001E	001E	01458	.WORD	30,	30	:
001D	001D	0145C	.WORD	29,	29	:
001D	001D	01460	.WORD	29,	29	:
001D	001D	01464	.WORD	29,	29	:
001E	001E	01468	.WORD	30,	30	:
001E	001E	0146C	.WORD	30,	30	:
001E	001E	01470	.WORD	30,	30	:
001E	001E	01474	.WORD	30,	30	:
001E	001E	01478	.WORD	30,	30	:
001E	001E	0147C	.WORD	30,	30	:
001E	001E	01480	.WORD	30,	30	:
001E	001E	01484	.WORD	30,	30	:
001E	001E	01488	.WORD	30,	30	:
001F	0001	0148C	.WORD	1,	31	:
0020	0001	01490	.WORD	1,	32	:
0020	0001	01494	.WORD	1,	32	:
0020	0001	01498	.WORD	1,	32	:
0021	0021	0149C	.WORD	33,	33	:
001E	001E	014A0	.WORD	30,	30	:
001E	001E	014A4	.WORD	30,	30	:
001E	001E	014A8	.WORD	30,	30	:
001E	001E	014AC	.WORD	30,	30	:
001E	001E	014B0	.WORD	30,	30	:
001E	001E	014B4	.WORD	30,	30	:
0003	001E	014B8	.WORD	30,	3	:
001F	0000	014BC	.WORD	0,	31	:
0020	0000	014C0	.WORD	0,	32	:
0021	0000	014C4	.WORD	0,	33	:
0022	0000	014C8	.WORD	0,	34	:
001E	001E	014CC	.WORD	30,	30	:
001E	001E	014D0	.WORD	30,	30	:
001E	001E	014D4	.WORD	30,	30	:
001E	001E	014D8	.WORD	30,	30	:
001E	001E	014DC	.WORD	30,	30	:
001E	001E	014E0	.WORD	30,	30	:
001E	001E	014E4	.WORD	30,	30	:
001E	001E	014E8	.WORD	30,	30	:
001E	001E	014EC	.WORD	30,	30	:
001E	001E	014F0	.WORD	30,	30	:
001D	001D	014F4	.WORD	29,	29	:
001E	001E	014F8	.WORD	30,	30	:
001E	001E	014FC	.WORD	30,	30	:
001E	001E	01500	.WORD	30,	30	:
001E	001E	01504	.WORD	30,	30	:
001E	001E	01508	.WORD	30,	30	:
001E	001E	0150C	.WORD	30,	30	:
001E	001E	01510	.WORD	30,	30	:
001E	001E	01514	.WORD	30,	30	:
001E	001E	01518	.WORD	30,	30	:

001E	001E	0151C	.WORD	30,	30	:
001E	001E	01520	.WORD	30,	30	:
001E	001E	01524	.WORD	30,	30	:
001E	001E	01528	.WORD	30,	30	:
0021	0021	0152C	.WORD	33,	33	:
001E	001E	01530	.WORD	30,	30	:
001E	001E	01534	.WORD	30,	30	:
001E	001E	01538	.WORD	30,	30	:
001E	001E	0153C	.WORD	30,	30	:
001E	001E	01540	.WORD	30,	30	:
001E	001E	01544	.WORD	30,	30	:
0003	001E	01548	.WORD	30,	3	:
001F	0000	0154C	.WORD	0,	31	:
0020	0000	01550	.WORD	0,	32	:
0021	0000	01554	.WORD	0,	33	:
0022	0000	01558	.WORD	0,	34	:
001E	001E	0155C	.WORD	30,	30	:

DS\$ENDPASS==	65552
DS\$GP HARD==	65560
DS\$ABORT==	65568
DS\$SUMMARY==	65576
DS\$BGNSUB==	65584
DS\$ENDSUB==	65592
DS\$CKLOOP==	65600
DS\$INLOOP==	65608
DS\$ESCAPE==	65616
DS\$BREAK==	65624
DS\$WAITMS==	65632
DS\$WAITUS==	65640
DS\$CANWAIT==	65648
DS\$CNTRLC==	65656
DS\$ASKDATA==	65664
DS\$ASKVLD==	65672
DS\$ASKADR==	65680
DS\$ASKLGCL==	65688
DS\$ASKSTR==	65696
DS\$BRANCH==	65704
DS\$CVTREG==	65712
DS\$PARSE==	65720
DS\$ERRSYS==	65728
DS\$ERRDEV==	65736
DS\$ERRHARD==	65744
DS\$ERRSOFT==	65752
DS\$PRINTB==	65760
DS\$PRINTX==	65768
DS\$PRINTF==	65776
DS\$PRINTS==	65784
DS\$PRINTSIG==	65792
DS\$ERRPREP==	65800
DS\$SETPRIEXV==	65808
DS\$MAPDBGBLOCK==	65816
DS\$GETBUF==	65824
DS\$RELBUF==	65832
DS\$MMON==	65872

DS\$MMOFF== 65880
DS\$SETVEC== 65888
DS\$CLRVEC== 65896
DS\$INITSCB== 65904
DS\$SETIPL== 65912
DS\$CHANNEL== 65920
DS\$SETMAP== 65928
DS\$SHOCHAN== 65936
DS\$LOAD== 65944
DS\$PROBE== 65952
DS\$ATTACH== 65960
DS\$HELP== 65968
DS\$FREEDBGSYM== 65976
DS\$LOADPCS== 65984
DS\$GETTERM== 65992
DS\$SERVICE_DISPATCHER==
66000
DS\$MEMSIZE== 66008
SYS\$QIOW== 66048
SYS\$ALLOC== 66104
SYS\$ASCTIM== 66120
SYS\$ASSIGN== 66128
SYS\$BINTIM== 66136
SYS\$CANCEL== 66144
SYS\$CANTIM== 66152
SYS\$CLREF== 66200
SYS\$DALLOC== 66264
SYS\$DASSGN== 66272
SYS\$FAO== 66384
SYS\$FAOL== 66392
SYS\$GETTIM== 66424
SYS\$GTCHAN== 66432
SYS\$HIBER== 66432
SYS\$LKWSET== 66464
SYS\$NUMTIM== 66488
SYS\$QIO== 66504
SYS\$READEF== 66512
SYS\$SETAST== 66552
SYS\$SETEF== 66560
SYS\$SETIMR== 66592
SYS\$SETPRI== 66600
SYS\$SETPRT== 66608
SYS\$SETRWN== 66616
SYS\$ULKPAG== 66656
SYS\$ULWSET== 66664
SYS\$UNWIND== 66672
SYS\$WAITFR== 66680
SYS\$WFLAND== 66696
SYS\$WFLO== 66704
SYS\$GETCHN== 66760
SYS\$GET== 66944
SYS\$READ== 66960
SYS\$CLOSE== 67000
SYS\$CONNECT== 67008
SYS\$DISCONNECT== 67024

ZZ-ENSAB-2.0 CRD\$Init_State_Table Routine D 9
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame D9 Sequence 931
 01-04 CRD\$Init_State_Table Routine 3-Jan-1985 17:02:14 (DS.CRD.V020)CRDSTATE.B32;1 (12) Page 46

```

SYS$OPEN==      67080
CRD$GW_STATE_TABLE==P.AAA
  .EXTRN CRD$GET_STATE, CRD$GET_ACTION_ROUTINE
  .EXTRN CRD$INIT_STATE_TABLE
  .EXTRN CRD$TURNING_MACHINE
  .EXTRN CRD$PRINT_ACTION_ROUTINE

  .PSECT CODE,NOWRT, SHR, PIC,2

      0000 00000 .ENTRY CRD$INIT_STATE_TABLE, Save nothing ; 0620
00000000' EF D4 00002 CLRL CRD$GL_CURRENT_TYPECODE ; 0645
00000000' EF 03 D0 00008 MOVL #3, CRD$GL_CURRENT_STATE ; 0646
00000000' EF 24 D0 0000F MOVL #36, CRD$GL_CURRENT_ACTION ; 0647
      04 00016 RET ; 0650
  
```

; Routine Size: 23 bytes, Routine Base: CODE + 0000

```

: 0651 1 *SBTTL 'CRD$Get_State Routine'
: 0652 1
: 0653 1 GLOBAL ROUTINE CRD$Get_State =
: 0654 1
: 0655 1 !**
: 0656 1 ! Functional Description:
: 0657 1 !
: 0658 1 ! Get the current state number from the CRD$GW_State_Table.
: 0659 1 !
: 0660 1 ! Formal Input Parameters:
: 0661 1 !
: 0662 1 ! None
: 0663 1 !
: 0664 1 ! Formal Output Parameters:
: 0665 1 !
: 0666 1 ! None
: 0667 1 !
: 0668 1 ! Side Effects:
: 0669 1 !
: 0670 1 ! None
: 0671 1 !
: 0672 1 ! Completion Codes:
: 0673 1 !
: 0674 1 ! Returns the state number.
: 0675 1 !--

```

ZZ-ENSAB-2.0 CRD\$Get_State Routine F 9
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame F9 Sequence 933
 01-04 CRD\$Get_State Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (14) Page 48

```

; 0676 2 BEGIN      ! Routine CRD$Get_State
; 0677 2
; 0678 3 RETURN (.CRD$GW_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_Current_State, CRD$K_New_State])
; 0679 3
; 0680 1 END;      ! Routine CRD$Get_State

```

```

0000 00000 .ENTRY CRD$GET_STATE, Save nothing ; 0653
50 00000000' EF 00000090 8F C5 00002 MULL3 #144, CRD$GL_CURRENT_TYPECODE, R0 ; 0678
51 00000000' EF D0 0000E MOVL CRD$GL_CURRENT_STATE, R1 ;
50 6041 DE 00015 MOVAL (R0)[R1], R0 ;
26 00000000' EF D1 00019 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
05 18 00020 BGEQ 1$ ;
24 51 D1 00022 CMPL R1, #36 ;
05 19 00025 BLSS 2$ ;
50 01 CE 00027 1$: MNEGL #1, R0 ;
08 11 0002A BRB 3$ ;
50 00000000' EF40 9E 0002C 2$: MOVAB CRD$GW_STATE_TABLE[R0], R0 ;
50 02 A0 3C 00034 3$: MOVZWL 2(R0), R0 ;
04 00038 RET ; 0680

```

; Routine Size: 57 bytes, Routine Base: CODE + 0017

```

; 0681 1 xSBTTL 'CRD$Get_Action_Routine Routine'
; 0682 1
; 0683 1 GLOBAL ROUTINE CRD$Get_Action_Routine =
; 0684 1
; 0685 1 !*
; 0686 1 ! Functional Description:
; 0687 1 !
; 0688 1 ! Extract the current action routine number from the CRD$GW_State_Table and return this number.
; 0689 1 !
; 0690 1 ! Formal Input Parameters:
; 0691 1 !
; 0692 1 ! None
; 0693 1 !
; 0694 1 ! Formal Output Parameters:
; 0695 1 !
; 0696 1 ! None
; 0697 1 !
; 0698 1 ! Side Effects:
; 0699 1 !
; 0700 1 ! None
; 0701 1 !
; 0702 1 ! Completion Codes:
; 0703 1 !
; 0704 1 ! Returns the current action routine number.
; 0705 1 ! --

```

ZZ-ENSAB-2.0 CRD\$Get_Action_Routine Routine H 9
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H9 Sequence 935
 01-04 CRD\$Get_Action_Routine Routine 3-Jan-1985 17:02:14 (DS.CRD.V020)CRDSTATE.B32;1 (16) Page 50

```

; 0706 2 BEGIN      ! Routine CRD$Get_Action_Routine
; 0707 2
; 0708 3 RETURN (.CRD$GW_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_Current_State, CRD$K_Action_Routine])
; 0709 3
; 0710 1 END;      ! Routine CRD$Get_Action_Routine

```

```

0000 00000 .ENTRY CRD$GET_ACTION_ROUTINE, Save nothing ; 0683
50 00000000' EF 00000090 8F C5 00002 MULL3 #144, CRD$GL_CURRENT_TYPECODE, R0 ; 0708
51 00000000' EF D0 0000E MOVL CRD$GL_CURRENT_STATE, R1 ;
50 6041 DE 00015 MOVAL (R0)(R1), R0 ;
26 00000000' EF D1 00019 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
05 18 00020 BGEQ 1$ ;
24 51 D1 00022 CMPL R1, #36 ;
05 19 00025 BLSS 2$ ;
50 01 CE 00027 1$: MNEGL #1, R0 ;
08 11 0002A BRB 3$ ;
50 00000000' EF40 9E 0002C 2$: MOVAB CRD$GW_STATE_TABLE[R0], R0 ;
50 60 3C 00034 3$: MOVZWL (R0), R0 ;
04 00037 RET ; 0710

```

; Routine Size: 56 bytes, Routine Base: CODE + 0050

```

: 0711 1 xSBTTL 'CRD$Turing_Machine Routine'
: 0712 1
: 0713 1 GLOBAL ROUTINE CRD$Turing_Machine (TypeCode, Length, Address) =
: 0714 1
: 0715 1 !*+
: 0716 1 ! Functional Description:
: 0717 1 !
: 0718 1 ! This routine is the main decision-making routine for CRD-AutoTest. It simulates a finite-state automata
: 0719 1 ! and uses a state table to determine the next state of CRD. This state table is referenced using the
: 0720 1 ! typecode passed to it by the CRD$DS_Interface routine and the current 'state'. The initial state is
: 0721 1 ! CRD$K_State_Start (i.e., 0). The state table contains a new state number and an action routine number.
: 0722 1 ! The action routine number determines what action routine is called to perform some action based on the
: 0723 1 ! typecode (e.g., loading a DS command into the CLI data buffer, adjusting internal-CRD pointers, etc.).
: 0724 1 !
: 0725 1 ! This routine is capable of being called recursively. In fact, if an action routine returns a
: 0726 1 ! CRD$K_Repeat_Turing status value, this routine will call itself recursively. This allows multiple actions
: 0727 1 ! to be taken on a single typecode.
: 0728 1 !
: 0729 1 ! Formal Input Parameters:
: 0730 1 !
: 0731 1 ! TypeCode: The DS typecode value.
: 0732 1 ! Length: The length of the string being printed out by the Resident-DS, or the length of the
: 0733 1 ! buffer in which to put a string (e.g., the length of the CLI data buffer).
: 0734 1 ! Address: The address of the string being printed out, or the address of where to put the string.
: 0735 1 !
: 0736 1 ! Formal Output Parameters:
: 0737 1 !
: 0738 1 ! None
: 0739 1 !
: 0740 1 ! Side Effects:
: 0741 1 !
: 0742 1 ! None
: 0743 1 !
: 0744 1 ! Completion Codes:
: 0745 1 !
: 0746 1 ! CRD$K_Success: Branch around what was about to be done in the Resident-DS.
: 0747 1 ! CRD$K_Failure: Perform the action that was about to happen in the Resident-DS.
: 0748 1 ! --

```

```

: 0749 2 BEGIN      ! Routine CRD$Turing_Machine
: 0750 2
: 0751 2 OWN
: 0752 2   Recursion : INITIAL (0);
: 0753 2
: 0754 2 MACRO
: M 0755 2   Action_Routine_Case (AR_Name) [] =
: M 0756 2     [xNAME ('CRD$K_', AR_Name)]:
: M 0757 2     BEGIN
: M 0758 2       LOCAL
: M 0759 2       Status : VECTOR [2, WORD];
: M 0760 2
: M 0761 2       !+
: M 0762 2       ! Call the action routine. Each routine returns a multi-value status number.
: M 0763 2       ! One such number is CRD$K_Repeat_Turing. When a routine returns this status
: M 0764 2       ! value, it means that this Turing_Machine routine must be called recursively.
: M 0765 2       ! This allows multiple actions to be performed on a single typecode (such as
: M 0766 2       ! the DS_Prompt typecode). The Load_xxxx_Com routines return the length of the
: M 0767 2       ! loaded DS command in the high word of the returned status value, so check
: M 0768 2       ! for the actual status value in the low word. Return the full longword to the
: M 0769 2       ! DS_Interface routine. It will return value to the Resident-DS routine that
: M 0770 2       ! called it. So, this length will get passed back to the DS_SuperLine routine
: M 0771 2       ! in the SCRIPT module.
: M 0772 2       !-
: M 0773 2
: M 0774 2       Status = xNAME ('CRD$', AR_Name) (xREMAINING);
: M 0775 2
: M 0776 2       IF .Status [0] EQL CRD$K_Repeat_Turing THEN
: M 0777 2         BEGIN
: M 0778 2           Status = CRD$Turing_Machine (.TypeCode, .Length, .Address);
: M 0779 2           Recursion = .Recursion - 1;
: M 0780 2           RETURN (.Status)
: M 0781 2         END
: M 0782 2       ELSE
: M 0783 2         BEGIN
: M 0784 2           Recursion = .Recursion - 1;
: M 0785 2           RETURN (.Status)
: M 0786 2         END
: M 0787 2       END
: 0788 2   x;
: 0789 2
: 0790 2 $DS_Break;    ! Check for ^C's typed on the terminal
: 0791 2
: 0792 2 IF (.CRD$GB_CRD_Debug) THEN
: 0793 2   $CRD_Print ($ASCII ('!/Turing_Machine (!UL): The current '), .Recursion);
: 0794 2
: 0795 2 Recursion = .Recursion + 1;
: 0796 2
: 0797 2 IF (.CRD$GB_CRD_Debug) THEN
: 0798 3   BEGIN
: 0799 3     CRD$Print_TypeCode_Name (.TypeCode);
: P 0800 3     $CRD_Print
: P 0801 3     (
: P 0802 3       $ASCII (' - State: !2UL, Action: !2UL, TypeCode: !2UL, Address: !XL(X), Length: !3UL!/'),
: P 0803 3       .CRD$GL_Current_State, .CRD$GL_Current_Action, .TypeCode, .Address, .Length
  
```



```

: 0804 3 );
: 0805 2 END;
: 0806 2
: 0807 2 CRD$GL_Current_TypeCode = .TypeCode;
: 0808 2
: 0809 2 DO
: 0810 3 BEGIN
: 0811 3 REGISTER
: 0812 3 State, Action;
: 0813 3
: 0814 3 !+
: 0815 3 ! Don't store directly into the current_state and current_action because they are used
: 0816 3 ! in the two routines. Keep getting a new state until an action routine other than
: 0817 3 ! Advance_State is found.
: 0818 3 !-
: 0819 3
: 0820 3 State = CRD$Get_State ();
: 0821 3 Action = CRD$Get_Action_Routine ();
: 0822 3
: 0823 3 CRD$GL_Current_State = .State;
: 0824 3 CRD$GL_Current_Action = .Action
: 0825 3 END
: 0826 2 UNTIL (.CRD$GL_Current_Action NEQ CRD$K_Advance_State);
: 0827 2
: 0828 2 IF (.CRD$GB_CRD_Debug) THEN
: 0829 2 $CRD_Print ($ASCII (' - Executing action routine: '));
: 0830 2
: 0831 2 IF (.CRD$GL_Current_Action EQL CRD$K_Do_Nothing) THEN
: 0832 3 BEGIN
: 0833 3 Recursion = .Recursion - 1;
: 0834 3 IF (.CRD$GB_CRD_Debug) THEN
: 0835 3 CRD$Print_Action_Routine (CRD$K_Do_Nothing);
: 0836 4 RETURN (CRD$K_Success)
: 0837 2 END;
: 0838 2
: 0839 2 IF (.CRD$GB_CRD_Debug) THEN
: 0840 2 CRD$Print_Action_Routine (.CRD$GL_Current_Action);
: 0841 2
: 0842 2 CASE .CRD$GL_Current_Action FROM 0 TO (CRD$K_Last_Action_Routine - 1) OF
: 0843 2 SET
: 0844 2 Action_Routine_Case (Level_4_Passed);
: 0845 2
: 0846 2 Action_Routine_Case (Load_AutoSizer, .Length, .Address);
: 0847 2 Action_Routine_Case (AutoSizer_Set_Flags, .Length, .Address);
: 0848 2 Action_Routine_Case (Start_AutoSizer, .Length, .Address);
: 0849 2 Action_Routine_Case (Assign_PTable_Ptrs);
: 0850 2
: 0851 2 Action_Routine_Case (Load_General_Com, .Length, .Address);
: 0852 2 Action_Routine_Case (Advance_General_Com);
: 0853 2 Action_Routine_Case (Done_General_Com);
: 0854 2
: 0855 2 Action_Routine_Case (Set_Up_Diagnostic);
: 0856 2
: 0857 2 Action_Routine_Case (Load_Load_Com, .Length, .Address);
: 0858 2 Action_Routine_Case (Load_Set_Flags_Com, .Length, .Address);

```

```

; 0859 2 Action_Routine_Case (Load_Set_Event_Com, .Length, .Address);
; 0860 2 Action_Routine_Case (Load_Select_Com, .Length, .Address);
; 0861 2 Action_Routine_Case (Load_Start_Com, .Length, .Address);
; 0862 2
; 0863 2 Action_Routine_Case (Advance_Diagnostic);
; 0864 2 Action_Routine_Case (Exit_CRD);
; 0865 2
; 0866 2 Action_Routine_Case (AutoSizer_Error, .TypeCode, .Length, .Address);
; 0867 2 Action_Routine_Case (Internal_Error, .TypeCode, .Length, .Address);
; 0868 2 Action_Routine_Case (Load_Error);
; 0869 2 Action_Routine_Case (Start_Error);
; 0870 2 Action_Routine_Case (Diagnostic_Error, .TypeCode, .Length, .Address);
; 0871 2 Action_Routine_Case (Preparation_Error, .TypeCode, .Length, .Address);
; 0872 2
; 0873 2 [CRD$K_Do_Nothing,
; 0874 2 CRD$K_Advance_State,
; 0875 2 CRD$K_Start,
; 0876 2 CRD$K_Dummy_3,
; 0877 2 CRD$K_Dummy_4,
; 0878 2 CRD$K_Dummy_5,
; 0879 2 CRD$K_Dummy_6,
; 0880 2 CRD$K_Dummy_7,
; 0881 2 CRD$K_Dummy_8,
; 0882 2 CRD$K_Dummy_9,
; 0883 2 CRD$K_Dummy_10,
; 0884 2 CRD$K_Dummy_11,
; 0885 2 CRD$K_Dummy_12,
; 0886 2 CRD$K_Dummy_13];
; 0887 3 BEGIN
; 0888 3 CRD$Internal_Error (CRD$K_Action_EQL_Do_Nothing, .Length, .Address);
; 0889 3 ! Pass length and address so that we have 3 parameters
; 0890 2 END;
; 0891 2
; 0892 2 [OUTRANGE]:
; 0893 3 BEGIN
; 0894 3 CRD$Internal_Error (CRD$K_Action_Range_Error, .Length, .Address);
; 0895 3 ! Pass length and address so that we have 3 parameters
; 0896 2 END;
; 0897 2 TES;
; 0898 2
; 0899 3 RETURN (CRD$K_Failure)
; 0900 1 END; ! Routine CRD$Turing_Machine
  
```

.PSECT WORK,NOEXE,2

00000000 0000C RECURSION:
.LONG 0 ;

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

69 68 63 61 4D 5F 67 6E 69 72 75 54 2F 21 24 01560 P.AAB: .ASCII \$/Turing_Machine (!UL): The current \
63 20 65 68 54 20 3A 29 4C 55 21 28 20 65 6E 0156F
20 74 6E 65 72 72 75 0157E ;
  
```

ZZ-ENSAB-2.0 CRD\$Turing_Machine Routine M 9
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame M9 Sequence 940
 01-04 CRD\$Turing_Machine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (18)

```

55 32 21 20 3A 65 74 61 74 53 20 2D 20 20 4E 01585 P.AAC: .ASCII \N - State: !2UL, Action: !2UL, TypeCode\ ;
4C 55 32 21 20 3A 6E 6F 69 74 63 41 20 2C 4C 01594 ;
    65 64 6F 43 65 70 79 54 20 2C 015A3 ;
73 73 65 72 64 64 41 20 2C 4C 55 32 21 20 3A 015AD .ASCII \: !2UL, Address: !XL(X), Length: !3UL!/\ ;
74 67 6E 65 4C 20 2C 29 58 28 4C 58 21 20 3A 015BC ;
    2F 21 4C 55 33 21 20 3A 68 015CB ;
20 67 6E 69 74 75 63 65 78 45 20 2D 20 20 1E 015D4 P.AAD: .ASCII <30>\ - Executing action routine: \ ;
3A 65 6E 69 74 75 6F 72 20 6E 6F 69 74 63 61 015E3 ;
    20 015F2 ;
  
```

```

.EXTRN CRD$GB_CRD_DEBUG
.EXTRN CRD$PRINT, CRD$PRINT_TYPECODE_NAME
.EXTRN CRD$LEVEL_4_PASSED
.EXTRN CRD$LOAD_AUTOSIZER
.EXTRN CRD$AUTOSIZER_SET_FLAGS
.EXTRN CRD$START_AUTOSIZER
.EXTRN CRD$ASSIGN_PTABLE_PTRS
.EXTRN CRD$LOAD_GENERAL_COM
.EXTRN CRD$ADVANCE_GENERAL_COM
.EXTRN CRD$DONE_GENERAL_COMS
.EXTRN CRD$SET_UP_DIAGNOSTIC
.EXTRN CRD$LOAD_LOAD_COM
.EXTRN CRD$LOAD_SET_FLAGS_COM
.EXTRN CRD$LOAD_SET_EVENT_COM
.EXTRN CRD$LOAD_SELECT_COM
.EXTRN CRD$LOAD_START_COM
.EXTRN CRD$ADVANCE_DIAGNOSTIC
.EXTRN CRD$EXIT_CRD, CRD$AUTOSIZER_ERROR
.EXTRN CRD$INTERNAL_ERROR
.EXTRN CRD$LOAD_ERROR, CRD$START_ERROR
.EXTRN CRD$DIAGNOSTIC_ERROR
.EXTRN CRD$PREPARATION_ERROR
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

    000C 0000 .ENTRY CRD$TURING_MACHINE, Save R2,R3 ; 0713
00000000G 9F 00 FB 00002 CALLS #0, a#DS$BREAK ; 0788
    17 00000000G EF E9 00009 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0792
00000000' EF DD 00010 PUSHL RECURSION ; 0793
00000000' EF 9F 00016 PUSHAB P.AAB ;
    01 DD 0001C PUSHL #1 ;
    1A DD 0001E PUSHL #26 ;
00000000G FF 04 FB 00020 CALLS #4, aCRD$PRINT ;
00000000' EF D6 00027 1$: INCL RECURSION ; 0795
    2B 00000000G EF E9 0002D BLBC CRD$GB_CRD_DEBUG, 2$ ; 0797
04 AC DD 00034 PUSHL TYPECODE ; 0799
00000000G EF 01 FB 00037 CALLS #1, CRD$PRINT_TYPECODE NAME ;
08 AC DD 0003E PUSHL LENGTH ; 0804
0C AC DD 00041 PUSHL ADDRESS ;
04 AC DD 00044 PUSHL TYPECODE ;
    7E 00000000' EF 7D 00047 MOVQ CRD$GL_CURRENT_STATE, -(SP) ;
00000000' EF 9F 0004E PUSHAB P.AAC ;
    01 DD 00054 PUSHL #1 ;
    1A DD 00056 PUSHL #26 ;
00000000G FF 08 FB 00058 CALLS #8, aCRD$PRINT ;
  
```

```
53 04 AC D0 0005F 2$: MOVL TYPECODE, R3 ; 0807
00000000' EF 53 D0 00063 MOVL R3, CRD$GL_CURRENT_TYPECODE ;
FF20 CF 00 FB 0006A 3$: CALLS #0, CRD$GET_STATE ; 0820
52 50 D0 0006F MOVL R0, STATE ;
FF51 CF 00 FB 00072 CALLS #0, CRD$GET_ACTION_ROUTINE ; 0821
00000000' EF 52 D0 00077 MOVL STATE, CRD$GL_CURRENT_STATE ; 0823
00000000' EF 50 D0 0007E MOVL ACTION, CRD$GL_CURRENT_ACTION ; 0824
01 00000000' EF D1 00085 CMPL CRD$GL_CURRENT_ACTION, #1 ; 0826
DC 13 0008C BEQL 3$ ;
11 00000000G EF E9 0008E BLBC CRD$GB_CRD_DEBUG, 4$ ; 0828
00000000' EF 9F 00095 PUSHAB P.AAD ; 0829
01 DD 0009B PUSHL #1 ;
1A DD 0009D PUSHL #26 ;
00000000G FF 03 FB 0009F CALLS #3, @CRD$PRINT ;
00000000' EF D5 000A6 4$: TSTL CRD$GL_CURRENT_ACTION ; 0831
1A 12 000AC BNEQ 6$ ;
00000000' EF D7 000AE DECL RECURSION ; 0833
09 00000000G EF E9 000B4 BLBC CRD$GB_CRD_DEBUG, 5$ ; 0834
7E D4 000BB CLRL -(SP) ; 0835
00000000V EF 01 FB 000BD CALLS #1, CRD$PRINT_ACTION_ROUTINE ;
50 01 D0 000C4 5$: MOVL #1, R0 ; 0836
04 000C7 RET ;
0D 00000000G EF E9 000C8 6$: BLBC CRD$GB_CRD_DEBUG, 7$ ; 0839
00000000' EF DD 000CF PUSHL CRD$GL_CURRENT_ACTION ; 0840
00000000V EF 01 FB 000D5 CALLS #1, CRD$PRINT_ACTION_ROUTINE ;
23 00 00000000' EF CF 000DC 7$: CASEL CRD$GL_CURRENT_ACTION, #0, #35 ; 0842
017C 017C 017C 017C 000E4 8$: .WORD 35$-8$, - ;
0071 0064 017C 0052 000EC 35$-8$, - ;
017C 008B 017C 007E 000F4 35$-8$, - ;
00A1 0094 017C 0083 000FC 35$-8$, - ;
00C9 00BC 017C 00AA 00104 9$-8$, - ;
017C 00F2 00E4 00D6 0010C 35$-8$, - ;
010A 017C 0100 017C 00114 12$-8$, - ;
0134 0124 0114 017C 0011C 13$-8$, - ;
017C 0158 0148 013E 00124 14$-8$, - ;
35$-8$, - ;
15$-8$, - ;
35$ 8$, - ;
19$ 8$, - ;
35$ 8$, - ;
16$ 8$, - ;
17$ 8$, - ;
18$ 8$, - ;
35$ 8$, - ;
20$ 8$, - ;
21$ 8$, - ;
22$ 8$, - ;
23$ 8$, - ;
24$ 8$, - ;
35$ 8$, - ;
35$ 8$, - ;
25$ 8$, - ;
35$ 8$, - ;
26$ 8$, - ;
35$ 8$, - ;
```

```
27$ 8$, ;
28$-8$, - ;
29$-8$, - ;
30$-8$, - ;
31$-8$, - ;
32$-8$, - ;
35$-8$, ;
7E 08 AC 7D 0012C MOVQ LENGTH, -(SP) ; 0894
7E 02 CE 00130 MNEGL #2, -(SP) ;
0131 31 00133 BRW 36$ ;
00000000G EF 00 FB 00136 9$: CALLS #0, CRD$LEVEL_4_PASSED ; 0844
02 50 B1 0013D 10$: CMPW STATUS, #2 ;
03 13 00140 BEQL 11$ ;
0114 31 00142 BRW 34$ ;
0106 31 00145 11$: BRW 33$ ;
7E 08 AC 7D 00148 12$: MOVQ LENGTH, -(SP) ; 0846
00000000G EF 02 FB 0014C CALLS #2, CRD$LOAD_AUTOSIZER ;
E8 11 00153 BRB 10$ ;
7E 08 AC 7D 00155 13$: MOVQ LENGTH, -(SP) ; 0847
00000000G EF 02 FB 00159 CALLS #2, CRD$AUTOSIZER_SET_FLAGS ;
DB 11 00160 BRB 10$ ;
7E 08 AC 7D 00162 14$: MOVQ LENGTH, -(SP) ; 0848
00000000G EF 02 FB 00166 CALLS #2, CRD$START_AUTOSIZER ;
CE 11 0016D BRB 10$ ;
00000000G EF 00 FB 0016F 15$: CALLS #0, CRD$ASSIGN_PTABLE_PTRS ; 0849
C5 11 00176 BRB 10$ ;
7E 08 AC 7D 00178 16$: MOVQ LENGTH, -(SP) ; 0851
00000000G EF 02 FB 0017C CALLS #2, CRD$LOAD_GENERAL_COM ;
B8 11 00183 BRB 10$ ;
00000000G EF 00 FB 00185 17$: CALLS #0, CRD$ADVANCE_GENERAL_COM ; 0852
AF 11 0018C BRB 10$ ;
00000000G EF 00 FB 0018E 18$: CALLS #0, CRD$DONE_GENERAL_COMS ; 0853
A6 11 00195 BRB 10$ ;
00000000G EF 00 FB 00197 19$: CALLS #0, CRD$SET_UP_DIAGNOSTIC ; 0855
9D 11 0019E BRB 10$ ;
7E 08 AC 7D 001A0 20$: MOVQ LENGTH, -(SP) ; 0857
00000000G EF 02 FB 001A4 CALLS #2, CRD$LOAD_LOAD_COM ;
90 11 001AB BRB 10$ ;
7E 08 AC 7D 001AD 21$: MOVQ LENGTH, -(SP) ; 0858
00000000G EF 02 FB 001B1 CALLS #2, CRD$LOAD_SET_FLAGS_COM ;
83 11 001B8 BRB 10$ ;
7E 08 AC 7D 001BA 22$: MOVQ LENGTH, -(SP) ; 0859
00000000G EF 02 FB 001BE CALLS #2, CRD$LOAD_SET_EVENT_COM ;
FF75 31 001C5 BRW 10$ ;
7E 08 AC 7D 001C8 23$: MOVQ LENGTH, -(SP) ; 0860
00000000G EF 02 FB 001CC CALLS #2, CRD$LOAD_SELECT_COM ;
FF67 31 001D3 BRW 10$ ;
7E 08 AC 7D 001D6 24$: MOVQ LENGTH, -(SP) ; 0861
00000000G EF 02 FB 001DA CALLS #2, CRD$LOAD_START_COM ;
FF59 31 001E1 BRW 10$ ;
00000000G EF 00 FB 001E4 25$: CALLS #0, CRD$ADVANCE_DIAGNOSTIC ; 0863
FF4F 31 001EB BRW 10$ ;
00000000G EF 00 FB 001EE 26$: CALLS #0, CRD$EXIT_CRD ; 0864
FF45 31 001F5 BRW 10$ ;
7E 08 AC 7D 001F8 27$: MOVQ LENGTH, -(SP) ; 0866
```

```

    53 DD 001FC    PUSHL    R3
00000000G EF      03 FB 001FE    CALLS    ; #3, CRD$AUTOSIZER_ERROR    ;
FF35 31 00205    BRW      10$
    7E 08 AC 7D 00208 28$:    MOVQ    LENGTH, -(SP)    ; 0867
    53 DD 0020C    PUSHL    R3
00000000G EF      03 FB 0020E    CALLS    ; #3, CRD$INTERNAL_ERROR    ;
FF25 31 00215    BRW      10$
00000000G EF      00 FB 00218 29$:    CALLS    #0, CRD$LOAD_ERROR    ; 0868
FF1B 31 0021F    BRW      10$
00000000G EF      00 FB 00222 30$:    CALLS    #0, CRD$START_ERROR    ; 0869
FF11 31 00229    BRW      10$
    7E 08 AC 7D 0022C 31$:    MOVQ    LENGTH, -(SP)    ; 0870
    53 DD 00230    PUSHL    R3
00000000G EF      03 FB 00232    CALLS    ; #3, CRD$DIAGNOSTIC_ERROR    ;
FF01 31 00239    BRW      10$
    7E 08 AC 7D 0023C 32$:    MOVQ    LENGTH, -(SP)    ; 0871
    53 DD 00240    PUSHL    R3
00000000G EF      03 FB 00242    CALLS    ; #3, CRD$PREPARATION_ERROR    ;
    02 50 B1 00249    CMPW    STATUS, #2
    0B 12 0024C    BNEQ     34$
    7E 08 AC 7D 0024E 33$:    MOVQ    LENGTH, -(SP)
    53 DD 00252    PUSHL    R3
FDA7 CF          03 FB 00254    CALLS    ; #3, CRD$TURING_MACHINE    ;
00000000' EF D7 00259 34$:    DECL    RECURSION
    04 0025F    RET
    7E 08 AC 7D 00260 35$:    MOVQ    LENGTH, -(SP)    ; 0888
    7E 03 CE 00264    MNEGL    #3, -(SP)
00000000G EF      03 FB 00267 36$:    CALLS    ; #3, CRD$INTERNAL_ERROR    ;
    50 D4 0026E    CLRL     R0    ; 0899
    04 00270    RET    ; 0900
  
```

; Routine Size: 625 bytes, Routine Base: CODE + 0088

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine D 10
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame D10
01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (19) Page 59

Sequence 944

```
; 0901 1 xSBTTL 'CRD$Print_Action_Routine Routine'
; 0902 1
; 0903 1 GLOBAL ROUTINE CRD$Print_Action_Routine (Action_Routine) : NOVALUE =
; 0904 1
; 0905 1 !*
; 0906 1 ! Functional Description:
; 0907 1 !
; 0908 1 ! This routine prints a message saying what the Action_Routine is.
; 0909 1 !
; 0910 1 ! Formal Input Parameters:
; 0911 1 !
; 0912 1 ! Action_Routine : An action routine constant.
; 0913 1 !
; 0914 1 ! Formal Output Parameters:
; 0915 1 !
; 0916 1 ! None
; 0917 1 !
; 0918 1 ! Side Effects:
; 0919 1 !
; 0920 1 ! None
; 0921 1 !
; 0922 1 ! Completion Codes:
; 0923 1 !
; 0924 1 ! None
; 0925 1 ! --
```

```
: 0926 2 BEGIN      ! Routine CRD$Print_Action_Routine
: 0927 2  MACRO
: M 0928 2  Action_Routine_Case (Action_Routine_String) =
: M 0929 2  [xNAME ('CRD$K_', Action_Routine_String)];
: M 0930 2  $CRD_Print ($ASCIC ('(!UL) - ', Action_Routine_String, '!//'), .Action_Routine)
: 0931 2  x;
: 0932 2
: 0933 2  CASE .Action_Routine FROM 0 TO (CRD$K_Last_Action_Routine - 1) OF
: 0934 2  SET
: 0935 2  Action_Routine_Case ('Do_Nothing');
: 0936 2  Action_Routine_Case ('Advance_State');
: 0937 2  Action_Routine_Case ('Dummy_3');
: 0938 2
: 0939 2  Action_Routine_Case ('Start');
: 0940 2  Action_Routine_Case ('Level_4_Passed');
: 0941 2  Action_Routine_Case ('Dummy_4');
: 0942 2
: 0943 2  Action_Routine_Case ('Load_AutoSizer');
: 0944 2  Action_Routine_Case ('AutoSizer_Set_Flags');
: 0945 2  Action_Routine_Case ('Start_AutoSizer');
: 0946 2  Action_Routine_Case ('Dummy_5');
: 0947 2  Action_Routine_Case ('Assign_PTable_Ptrs');
: 0948 2  Action_Routine_Case ('Dummy_6');
: 0949 2
: 0950 2  Action_Routine_Case ('Load_General_Com');
: 0951 2  Action_Routine_Case ('Advance_General_Com');
: 0952 2  Action_Routine_Case ('Done_General_Com');
: 0953 2  Action_Routine_Case ('Dummy_7');
: 0954 2
: 0955 2  Action_Routine_Case ('Set_Up_Diagnostic');
: 0956 2  Action_Routine_Case ('Dummy_8');
: 0957 2
: 0958 2  Action_Routine_Case ('Load_Load_Com');
: 0959 2  Action_Routine_Case ('Load_Set_Flags_Com');
: 0960 2  Action_Routine_Case ('Load_Set_Event_Com');
: 0961 2  Action_Routine_Case ('Load_Select_Com');
: 0962 2  Action_Routine_Case ('Load_Start_Com');
: 0963 2  Action_Routine_Case ('Dummy_9');
: 0964 2  Action_Routine_Case ('Dummy_10');
: 0965 2
: 0966 2  Action_Routine_Case ('Advance_Diagnostic');
: 0967 2  Action_Routine_Case ('Dummy_11');
: 0968 2  Action_Routine_Case ('Exit_CRD');
: 0969 2  Action_Routine_Case ('Dummy_12');
: 0970 2
: 0971 2  Action_Routine_Case ('AutoSizer_Error');
: 0972 2  Action_Routine_Case ('Internal_Error');
: 0973 2  Action_Routine_Case ('Load_Error');
: 0974 2  Action_Routine_Case ('Start_Error');
: 0975 2  Action_Routine_Case ('Diagnostic_Error');
: 0976 2  Action_Routine_Case ('Preparation_Error');
: 0977 2  Action_Routine_Case ('Dummy_13');
: 0978 2
: 0979 2  [OUTRANGE]:
: P 0980 2  $CRD_Print ($ASCIC (' Print_Action_Routine - Illegal action routine number - 'UL!//'),
```



```

: 0981 2 .Action_Routine);
: 0982 2 TES;
: 0983 1 END; ! Routine CRD$Print_Action_Routine

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

74 6F 4E 5F 6F 44 20 2D 20 29 4C 55 21 28 16 015F3 P.AAE: .ASCII <22>\(!UL) - Do_Nothing!//\ ;
      2F 21 2F 21 67 6E 69 68 01602
63 6E 61 76 64 41 20 2D 20 29 4C 55 21 28 19 0160A P.AAF: .ASCII <25>\(!UL) - Advance_State!//\ ;
      2F 21 2F 21 65 74 61 74 53 5F 65 01619
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 01624 P.AAG: .ASCII <19>\(!UL) - Dummy_3!//\ ;
      2F 21 2F 21 33 01633
21 74 72 61 74 53 20 2D 20 29 4C 55 21 28 11 01638 P.AAH: .ASCII <17>\(!UL) - Start!//\ ;
      2F 21 2F 01647
5F 6C 65 76 65 4C 20 2D 20 29 4C 55 21 28 1A 0164A P.AAI: .ASCII <26>\(!UL) - Level_4_Passed!//\ ;
      2F 21 2F 21 64 65 73 73 61 50 5F 34 01659
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 01665 P.AAJ: .ASCII <19>\(!UL) - Dummy_4!//\ ;
      2F 21 2F 21 34 01674
41 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1A 01679 P.AAK: .ASCII <26>\(!UL) - Load_AutoSizer!//\ ;
      2F 21 2F 21 72 65 7A 69 53 6F 74 75 01688
69 53 6F 74 75 41 20 2D 20 29 4C 55 21 28 1F 01694 P.AAL: .ASCII <31>\(!UL) - AutoSizer_Set_Flags!//\ ;
      2F 21 73 67 61 6C 46 5F 74 65 53 5F 72 65 7A 016A3
      2F 21 016B2
5F 74 72 61 74 53 20 2D 20 29 4C 55 21 28 1B 016B4 P.AAM: .ASCII <27>\(!UL) - Start_AutoSizer!//\ ;
      2F 21 2F 21 72 65 7A 69 53 6F 74 75 41 016C3
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 016D0 P.AAN: .ASCII <19>\(!UL) - Dummy_5!//\ ;
      2F 21 2F 21 35 016DF
6E 67 69 73 73 41 20 2D 20 29 4C 55 21 28 1E 016E4 P.AAO: .ASCII <30>\(!UL) - Assign_PTable_Ptrs!//\ ;
      2F 21 73 72 74 50 5F 65 6C 62 61 54 50 5F 016F3
      2F 01702
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 01703 P.AAP: .ASCII <19>\(!UL) - Dummy_6!//\ ;
      2F 21 2F 21 36 01712
47 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1C 01717 P.AAQ: .ASCII <28>\(!UL) - Load_General_Com!//\ ;
      2F 21 2F 21 6D 6F 43 5F 6C 61 72 65 6E 65 01726
63 6E 61 76 64 41 20 2D 20 29 4C 55 21 28 1F 01734 P.AAR: .ASCII <31>\(!UL) - Advance_General_Com!//\ ;
      2F 21 6D 6F 43 5F 6C 61 72 65 6E 65 47 5F 65 01743
      2F 21 01752
47 5F 65 6E 6F 44 20 2D 20 29 4C 55 21 28 1D 01754 P.AAS: .ASCII <29>\(!UL) - Done_General_Com!//\ ;
      2F 21 2F 21 73 6D 6F 43 5F 6C 61 72 65 6E 65 01763
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 01772 P.AAT: .ASCII <19>\(!UL) - Dummy_7!//\ ;
      2F 21 2F 21 37 01781
70 55 5F 74 65 53 20 2D 20 29 4C 55 21 28 1D 01786 P.AAU: .ASCII <29>\(!UL) - Set_Up_Diagnostic!//\ ;
      2F 21 2F 21 63 69 74 73 6F 6E 67 61 69 44 5F 01795
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 017A4 P.AAV: .ASCII <19>\(!UL) - Dummy_8!//\ ;
      2F 21 2F 21 38 017B3
4C 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 19 017B8 P.AAW: .ASCII <25>\(!UL) - Load_Load_Com!//\ ;
      2F 21 2F 21 6D 6F 43 5F 64 61 6F 017C7
53 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1E 017D2 P.AAX: .ASCII <30>\(!UL) - Load_Set_Flags_Com!//\ ;
      2F 21 6D 6F 43 5F 73 67 61 6C 46 5F 74 65 017E1
      2F 017F0
53 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1E 017F1 P.AAY: .ASCII <30>\(!UL) - Load_Set_Event_Com!//\ ;
      2F 21 6D 6F 43 5F 74 6E 65 76 45 5F 74 65 01800
      2F 0180F

```

G 10
19-Sep-1985 Fiche 5 Frame G10 Sequence 947
Page 62

22-ENSAB-2.0 CRD\$Print_Action_Routine Routine
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746
01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (20)

```

53 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1B 01810 P.AAZ: .ASCII <27>\(!UL) - Load_Select_Com!//\ ;
2F 21 2F 21 6D 6F 43 5F 74 63 65 6C 65 0181F ;
53 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 1A 0182C P.ABA: .ASCII <26>\(!UL) - Load_Start_Com!//\ ;
2F 21 2F 21 6D 6F 43 5F 74 72 61 74 0183B ;
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 13 01847 P.ABB: .ASCII <19>\(!UL) - Dummy_9!//\ ;
2F 21 2F 21 39 01856 ;
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 14 0185B P.ABC: .ASCII <20>\(!UL) - Dummy_10!//\ ;
2F 21 2F 21 30 31 0186A ;
63 6E 61 76 64 41 20 2D 20 29 4C 55 21 28 1E 01870 P.ABD: .ASCII <30>\(!UL) - Advance_Diagnostic!//\ ;
21 2F 21 63 69 74 73 6F 6E 67 61 69 44 5F 65 0187F ;
2F 0188E ;
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 14 0188F P.ABE: .ASCII <20>\(!UL) - Dummy_11!//\ ;
2F 21 2F 21 31 31 0189E ;
43 5F 74 69 78 45 20 2D 20 29 4C 55 21 28 14 018A4 P.ABF: .ASCII <20>\(!UL) - Exit_CRD!//\ ;
2F 21 2F 21 44 52 018B3 ;
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 14 018B9 P.ABG: .ASCII <20>\(!UL) - Dummy_12!//\ ;
2F 21 2F 21 32 31 018C8 ;
69 53 6F 74 75 41 20 2D 20 29 4C 55 21 28 1B 018CE P.ABH: .ASCII <27>\(!UL) - AutoSizer_Error!//\ ;
2F 21 2F 21 72 6F 72 72 45 5F 72 65 7A 018DD ;
6E 72 65 74 6E 49 20 2D 20 29 4C 55 21 28 1A 018EA P.ABI: .ASCII <26>\(!UL) - Internal_Error!//\ ;
2F 21 2F 21 72 6F 72 72 45 5F 6C 61 018F9 ;
45 5F 64 61 6F 4C 20 2D 20 29 4C 55 21 28 16 01905 P.ABJ: .ASCII <22>\(!UL) - Load_Error!//\ ;
2F 21 2F 21 72 6F 72 72 01914 ;
5F 74 72 61 74 53 20 2D 20 29 4C 55 21 28 17 0191C P.ABK: .ASCII <23>\(!UL) - Start_Error!//\ ;
2F 21 2F 21 72 6F 72 72 45 0192B ;
6F 6E 67 61 69 44 20 2D 20 29 4C 55 21 28 1C 01934 P.ABL: .ASCII <28>\(!UL) - Diagnostic_Error!//\ ;
2F 21 2F 21 72 6F 72 72 45 5F 63 69 74 73 01943 ;
72 61 70 65 72 50 20 2D 20 29 4C 55 21 28 1D 01951 P.ABM: .ASCII <29>\(!UL) - Preparation_Error!//\ ;
2F 21 2F 21 72 6F 72 72 45 5F 6E 6F 69 74 61 01960 ;
5F 79 6D 6D 75 44 20 2D 20 29 4C 55 21 28 14 0196F P.ABN: .ASCII <20>\(!UL) - Dummy_13!//\ ;
2F 21 2F 21 33 31 0197E ;
5F 6E 6F 69 74 63 41 5F 74 6E 69 72 50 20 3D 01984 P.ABO: .ASCII \= Print_Action_Routine - Illegal action \ ;
67 65 6C 6C 49 20 2D 20 65 6E 69 74 75 6F 52 01993 ;
20 20 6E 6F 69 74 63 61 20 6C 61 019A2 ;
20 72 65 62 6D 75 6E 20 65 6E 69 74 75 6F 72 019AC .ASCII \routine number = !UL!\ ;
2F 21 4C 55 21 20 3D 019BB ;

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 .ENTRY CRD$PRINT_ACTION_ROUTINE, Save nothing ; 0903
51 00000000G EF DO 00002 MOVL CRD$PRINT, R1 ; 0981
50 04 AC DO 00009 MOVL ACTION_ROUTINE, R0 ; 0933
23 00 50 CF 0000D CASEL R0, #0, #35 ;
0074 0069 005E 0053 00011 1$: .WORD 2$-1$,- ;
00A0 0095 008A 007F 00019 3$-1$,- ;
00CC 00C1 00B6 00AB 00021 4$-1$,- ;
00E2 00D7 00F8 0103 00029 5$-1$,- ;
0124 0119 010E 00ED 00031 6$-1$,- ;
0150 0145 013A 012F 00039 7$-1$,- ;
0178 016E 0164 015A 00041 8$-1$,- ;
01A0 0196 018C 0182 00049 9$ 1$,- ;
01C8 01BE 01B4 01AA 00051 10$ 1$,- ;
11$-1$,- ;

```

```
12$-1$,- ;
13$-1$,- ;
18$-1$,- ;
17$-1$,- ;
14$ 1$,- ;
15$-1$,- ;
16$-1$,- ;
19$ 1$,- ;
20$ 1$,- ;
21$-1$,- ;
22$ 1$,- ;
23$-1$,- ;
24$ 1$,- ;
25$-1$,- ;
26$ 1$,- ;
27$ 1$,- ;
28$ 1$,- ;
29$ 1$,- ;
30$ 1$,- ;
31$-1$,- ;
32$-1$,- ;
33$-1$,- ;
34$-1$,- ;
35$-1$,- ;
36$-1$,- ;
37$-1$ ;
50 DD 00059 PUSHL R0 ; 0981
00000000' EF 9F 0005B PUSHAB P.ABO ;
017D 31 00061 BRW 38$ ;
50 DD 00064 2$: PUSHL R0 ; 0935
00000000' EF 9F 00066 PUSHAB P.AAE ;
0172 31 0006C BRW 38$ ;
50 DD 0006F 3$: PUSHL R0 ; 0936
00000000' EF 9F 00071 PUSHAB P.AAF ;
0167 31 00077 BRW 38$ ;
50 DD 0007A 4$: PUSHL R0 ; 0937
00000000' EF 9F 0007C PUSHAB P.AAG ;
015C 31 00082 BRW 38$ ;
50 DD 00085 5$: PUSHL R0 ; 0939
00000000' EF 9F 00087 PUSHAB P.AAH ;
0151 31 0008D BRW 38$ ;
50 DD 00090 6$: PUSHL R0 ; 0940
00000000' EF 9F 00092 PUSHAB P.AAI ;
0146 31 00098 BRW 38$ ;
50 DD 0009B 7$: PUSHL R0 ; 0941
00000000' EF 9F 0009D PUSHAB P.AAJ ;
013B 31 000A3 BRW 38$ ;
50 DD 000A6 8$: PUSHL R0 ; 0943
00000000' EF 9F 000AB PUSHAB P.AAK ;
0130 31 000AE BRW 38$ ;
50 DD 000B1 9$: PUSHL R0 ; 0944
00000000' EF 9F 000B3 PUSHAB P.AAL ;
0125 31 000B9 BRW 38$ ;
50 DD 000BC 10$: PUSHL R0 ; 0945
00000000' EF 9F 000BE PUSHAB P.AAM ;
```

```

011A 31 000C4 BRW 38$ ;
50 DD 000C7 11$: PUSHL R0 ; 0946
00000000' EF 9F 000C9 PUSHAB P.AAN ;
010F 31 000CF BRW 38$ ;
50 DD 000D2 12$: PUSHL R0 ; 0947
00000000' EF 9F 000D4 PUSHAB P.AAO ;
0104 31 000DA BRW 38$ ;
50 DD 000DD 13$: PUSHL R0 ; 0948
00000000' EF 9F 000DF PUSHAB P.AAP ;
00F9 31 000E5 BRW 38$ ;
50 DD 000E8 14$: PUSHL R0 ; 0950
00000000' EF 9F 000EA PUSHAB P.AAQ ;
00EE 31 000F0 BRW 38$ ;
50 DD 000F3 15$: PUSHL R0 ; 0951
00000000' EF 9F 000F5 PUSHAB P.AAR ;
00E3 31 000FB BRW 38$ ;
50 DD 000FE 16$: PUSHL R0 ; 0952
00000000' EF 9F 00100 PUSHAB P.AAS ;
00D8 31 00106 BRW 38$ ;
50 DD 00109 17$: PUSHL R0 ; 0953
00000000' EF 9F 0010B PUSHAB P.AAT ;
00CD 31 00111 BRW 38$ ;
50 DD 00114 18$: PUSHL R0 ; 0955
00000000' EF 9F 00116 PUSHAB P.AAU ;
00C2 31 0011C BRW 38$ ;
50 DD 0011F 19$: PUSHL R0 ; 0956
00000000' EF 9F 00121 PUSHAB P.AAV ;
00B7 31 00127 BRW 38$ ;
50 DD 0012A 20$: PUSHL R0 ; 0958
00000000' EF 9F 0012C PUSHAB P.AAW ;
00AC 31 00132 BRW 38$ ;
50 DD 00135 21$: PUSHL R0 ; 0959
00000000' EF 9F 00137 PUSHAB P.AAX ;
00A1 31 0013D BRW 38$ ;
50 DD 00140 22$: PUSHL R0 ; 0960
00000000' EF 9F 00142 PUSHAB P.AAY ;
0096 31 00148 BRW 38$ ;
50 DD 0014B 23$: PUSHL R0 ; 0961
00000000' EF 9F 0014D PUSHAB P.AAZ ;
008B 31 00153 BRW 38$ ;
50 DD 00156 24$: PUSHL R0 ; 0962
00000000' EF 9F 00158 PUSHAB P.ABA ;
0080 31 0015E BRW 38$ ;
50 DD 00161 25$: PUSHL R0 ; 0963
00000000' EF 9F 00163 PUSHAB P.ABB ;
76 11 00169 BRB 38$ ;
50 DD 0016B 26$: PUSHL R0 ; 0964
00000000' EF 9F 0016D PUSHAB P.ABC ;
6C 11 00173 BRB 38$ ;
50 DD 00175 27$: PUSHL R0 ; 0966
00000000' EF 9F 00177 PUSHAB P.ABD ;
62 11 0017D BRB 38$ ;
50 DD 0017F 28$: PUSHL R0 ; 0967
00000000' EF 9F 00181 PUSHAB P.ABE ;
58 11 00187 BRB 38$ ;

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50 DD 00189 29$: PUSHL R0 ; 0968
00000000' EF 9F 0018B PUSHAB P.ABF ;
4E 11 00191 BRB 38$ ;
50 DD 00193 30$: PUSHL R0 ; 0969
00000000' EF 9F 00195 PUSHAB P.ABG ;
44 11 0019B BRB 38$ ;
50 DD 0019D 31$: PUSHL R0 ; 0971
00000000' EF 9F 0019F PUSHAB P.ABH ;
3A 11 001A5 BRB 38$ ;
50 DD 001A7 32$: PUSHL R0 ; 0972
00000000' EF 9F 001A9 PUSHAB P.ABI ;
30 11 001AF BRB 38$ ;
50 DD 001B1 33$: PUSHL R0 ; 0973
00000000' EF 9F 001B3 PUSHAB P.ABJ ;
26 11 001B9 BRB 38$ ;
50 DD 001BB 34$: PUSHL R0 ; 0974
00000000' EF 9F 001BD PUSHAB P.ABK ;
1C 11 001C3 BRB 38$ ;
50 DD 001C5 35$: PUSHL R0 ; 0975
00000000' EF 9F 001C7 PUSHAB P.ABL ;
12 11 001CD BRB 38$ ;
50 DD 001CF 36$: PUSHL R0 ; 0976
00000000' EF 9F 001D1 PUSHAB P.ABM ;
08 11 001D7 BRB 38$ ;
50 DD 001D9 37$: PUSHL R0 ; 0977
00000000' EF 9F 001DB PUSHAB P.ABN ;
01 DD 001E1 38$: PUSHL #1 ;
1A DD 001E3 PUSHL #26 ;
61 04 FB 001E5 CALLS #4, (R1) ;
04 001E8 RET ; 0983

```

; Routine Size: 489 bytes. Routine Base: CODE + 02F9

```

; 0984 1 END      ! End of CRDSTATE module
; 0985 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
WORK	16	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
DATA	6594	NOVEC, NOWRT, RD, NOEXE, SHR, LCL, REL, CON, NOPIC, ALIGN(2)
CODE	1250	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)
.ABS	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Symbol	Type	Defined	Referenced ...
\$ASCIC	Unbound	930	
Macro	Lib02	793	802 829 935 936 937 939 940 941 943
		944 945 946 947 948 950 951 952 953 955	
		956 958 959 960 961 962 963 964 966 967	
		968 969 971 972 973 974 975 976 977 980	
\$CRD_LITERALS	Macro	Lib03	85
\$CRD_PRINT	Unbound	930	
Macro	Lib03	793	800 829 935 936 937 939 940 941 943
		944 945 946 947 948 950 951 952 953 955	
		956 958 959 960 961 962 963 964 966 967	
		968 969 971 972 973 974 975 976 977 980	
\$DS_BREAK	Macro	Lib02	790
\$DS_DSSDEF	Macro	Lib02	88
\$DS_TYPEDEF	Macro	Lib02	84 793 804 829 935 936 937 939 940 941
		943 944 945 946 947 948 950 951 952 953	
		955 956 958 959 960 961 962 963 964 966	
		967 968 969 971 972 973 974 975 976 977	
		981	
\$ENTRY\$	Unbound	140	143 145 147 149 166 168 222 257 266
		281 284 293 302 311 320 328 336 347 362	
		371 380 385 394 399 408 417 427 442 457	
		462 467 476 479 488 497 500 515 530 545	
		560 575 590 605 614	
Comptime	132	222	257 266 281 284 293 302 311 320 328
		336 347 362 371 380 385 394 399 408 417	
		427 442 457 462 467 476 479 488 497 500	
		515 530 545 560 575 590 605 614	
\$EQLST	Macro	Lib04	84 85 793 804 829 935 936 937 939 940
		941 943 944 945 946 947 948 950 951 952	
		953 955 956 958 959 960 961 962 963 964	
		966 967 968 969 971 972 973 974 975 976	
		977 981	

Symbol	Type	Defined	Referenced	...
\$PREV_COLUMN\$	Unbound	183	186	195 201 222 257 266 281 293 302
		311 320 328 336 347 362 371 380 385 394		
		399 408 417 427 442 457 462 467 476 488		
		497 515 530 545 560 575 590 605 614		
Comptime	129 222 257 266 281 293 302 311 320 328 336			
		347 362 371 380 385 394 399 408 417 427		
		442 457 462 467 476 488 497 500 515 530		
		545 560 575 590 605 614		
\$ROWS\$	Unbound	142 147 222 257 266 281 284 293 302 311		
		320 328 336 347 362 371 380 385 394 399		
		408 417 427 442 457 462 467 476 479 488		
		497 500 515 530 545 560 575 590 605 614		
Comptime	133 222 257 266 281 284 293 302 311 320 328			
		336 347 362 371 380 385 394 399 408 417		
		427 442 457 462 467 476 479 488 497 500		
		515 530 545 560 575 590 605 614		
\$ROW_CNT\$	Comptime	131		
\$TEMP\$	Comptime	128		
\$WINDOW_SIZE\$	Unbound	186 188 190 201 203 205 222 257 266 281		
		293 302 311 320 328 336 347 362 371 380		
		385 394 399 408 417 427 442 457 462 467		
		476 488 497 515 530 545 560 575 590 605		
		614		
Comptime	130 222 257 266 281 293 302 311 320 328 336			
		347 362 371 380 385 394 399 408 417 427		
		442 457 462 467 476 488 497 500 515 530		
		545 560 575 590 605 614		
ACTION	MacrForm	180 193		
Register	812 821=	824.		
ACTION_ROUTINE	Unbound	930		
MacrForm	136 138			
MacrForm	155 156			
RoutForm	903 933.	935. 936. 937. 939. 940. 941. 943. 944. 945.		
	946. 947. 948. 950. 951. 952. 953. 955. 956. 958.			
	959. 960. 961. 962. 963. 964. 966. 967. 968. 969.			
	971. 972. 973. 974. 975. 976. 977. 981.			
ACTION_ROUTINE_CASE	Macro	755 844 846 847 848 849 851 852 853 855 957		
	858 859 860 861 863 864 866 867 868 869			
	870 871			
Macro	928 935 936 937 939 940 941 943 944 945 946			
	947 948 950 951 952 953 955 956 958 959			
	960 961 962 963 964 966 967 968 969 971			
	972 973 974 975 976 977			
ACTION_ROUTINE_STRING	MacrForm	928 929 930		
ADDRESS	Unbound	778		
RoutForm	713 804. 844. 846. 847. 848. 849. 851. 852. 853. 855.			
	857. 858. 859. 860. 861. 863. 864. 866. 867. 868.			
	869. 870. 871. 888. 894.			
AR_NAME	MacrForm	755 756 774		
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal	85		
AUTO\$K_EXIT_CONTROL_C	Literal	85		
AUTO\$K_EXIT_DUMMY_2	Literal	85		
AUTO\$K_EXIT_DUMMY_3	Literal	85		

Symbol	Type	Defined	Referenced	...
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	85		
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	85		
AUTOSK_EXIT_INTERNAL_ERROR	Literal	85		
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	85		
AUTOSK_EXIT_LAST_REASON	Literal	85	85	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	85		
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	85		
AUTOSK_EXIT_NOERRORS_PREP	Literal	85		
COLUMN	MacrForm	180 186 195		
CRD\$ADVANCE_DIAGNOSTIC	ExtRout	Lib03 863c		
CRD\$ADVANCE_GENERAL_COM	ExtRout	Lib03 852c		
CRD\$ASSIGN_PTABLE_PTRS	ExtRout	Lib03 849c		
CRD\$AUTOSIZER_ERROR	ExtRout	Lib03 866c		
CRD\$AUTOSIZER_SET_FLAGS	ExtRout	Lib03 847c		
CRD\$DIAGNOSTIC_ERROR	ExtRout	Lib03 870c		
CRD\$DONE_GENERAL_COMS	ExtRout	Lib03 853c		
CRD\$EXIT_CRD	ExtRout	Lib03 864c		
CRD\$GB_CRD_DEBUG	External	Lib03 792. 797. 828. 834. 839.		
CRD\$GET_ACTION_ROUTINE	GlobRout	683 Lib03e 95f 821c		
CRD\$GET_STATE	GlobRout	653 Lib03e 92f 820c		
CRD\$GL_CURRENT_ACTION	Global	124 Lib03e 647= 804. 824= 826. 831. 840. 842.		
CRD\$GL_CURRENT_STATE	Global	123 Lib03e 646= 678. 708. 804. 823=		
CRD\$GL_CURRENT_TYPECODE	Global	122 Lib03e 645= 678. 708. 807=		
CRD\$GW_STATE_TABLE	External	Lib03		
GlobBind		214 678 678. 708 708.		
CRD\$INIT_STATE_TABLE	GlobRout	620 Lib03e 98f		
CRD\$INTERNAL_ERROR	ExtRout	Lib03 867c 888c 894c		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	85 888		
CRD\$K_ACTION_RANGE_ERROR	Literal	85 894		
CRD\$K_ACTION_ROUTINE	Literal	Lib03 708		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	85 257 863 966		
CRD\$K_ADVANCE_GENERAL_COM	Literal	85 257 852 951		
CRD\$K_ADVANCE_STATE	Literal	85 257 281 347 362 442 457 467 515 530 545		
		560 575 590 605 826 874 936		
CRD\$K_ALLOCATION_ERROR	Literal	85		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	85 257 849 947		
CRD\$K_AUTOSIZER_ERROR	Literal	85 257 266 281 293 302 311 320 328 336 347		
		362 371 408 417 427 442 457 467 476 488		
		497 515 530 545 560 575 590 605 614 866		
		971		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	85 257 847 944		
CRD\$K_BAD_ACTION_NUMBER	Literal	85		
CRD\$K_BAD_TYPECODE_ERROR	Literal	85		
CRD\$K_BASE_SYSTEM_IDC	Literal	85		
CRD\$K_BASE_SYSTEM_LESI	Literal	85		
CRD\$K_BASE_SYSTEM_NULL	Literal	85		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	85		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	85		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	85		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	85		
CRD\$K_CRD_INITIALIZATION	Literal	85		
CRD\$K_CREATE_HST	Literal	85		
CRD\$K_DATA_LENGTH_ERROR	Literal	85		

Symbol	Type	Defined	Referenced ...
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	85	
CRD\$K_DDB_BLINK	Literal	85	
CRD\$K_DDB_FLINK	Literal	85	
CRD\$K_DDB_LAST_ENTRY	Literal	85	
CRD\$K_DDB_MEMORY_SIZE	Literal	85	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	85	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	85	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	85	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	85	
CRD\$K_DDB_PTABLE_ENTRY	Literal	85	
CRD\$K_DDB_STATUS	Literal	85	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	85	
CRD\$K_DEVICE_NAME	Literal	85	
CRD\$K_DIAGNOSTIC_ERROR	Literal	85	266 293 302 311 320 347 362 371 408 417
		427 476 497 515 530 545 560 575 590 605	
		614 870 975	
CRD\$K_DIAGNOSTIC_NAME	Literal	85	
CRD\$K_DONE_GENERAL_COMS	Literal	85	257 853 952
CRD\$K_DO_NOTHING	Literal	85	222 266 281 293 302 311 320 328 336 362
		371 380 385 394 399 408 417 427 442 457	
		462 476 488 497 500 515 530 545 560 575	
		590 605 614 831 835 873 935	
CRD\$K_DUMMY_10	Literal	85	883 964
CRD\$K_DUMMY_11	Literal	85	884 967
CRD\$K_DUMMY_12	Literal	85	885 969
CRD\$K_DUMMY_13	Literal	85	886 977
CRD\$K_DUMMY_3	Literal	85	876 937
CRD\$K_DUMMY_4	Literal	85	877 941
CRD\$K_DUMMY_5	Literal	85	878 946
CRD\$K_DUMMY_6	Literal	85	879 948
CRD\$K_DUMMY_7	Literal	85	880 953
CRD\$K_DUMMY_8	Literal	85	881 956
CRD\$K_DUMMY_9	Literal	85	882 963
CRD\$K_EXIT_CRD	Literal	85	257 864 968
CRD\$K_FAILURE	Literal	Lib03	899
CRD\$K_HOOK_POINT	Literal	85	
CRD\$K_HS_INTERNAL_ERROR	Literal	85	
CRD\$K_IDC_EVDLB	Literal	85	
CRD\$K_IDC_EVDLC	Literal	85	
CRD\$K_IDC_EVDLD	Literal	85	
CRD\$K_IDC_EVRAD_0	Literal	85	
CRD\$K_IDC_EVRAD_1	Literal	85	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	85	
CRD\$K_INTERNAL_ERROR	Literal	85	222 257 266 281 284 293 302 311 320 328
		336 347 362 371 380 385 394 399 408 417	
		427 442 457 462 467 476 479 488 497 500	
		515 530 545 560 575 590 605 614 867 972	
CRD\$K_LAST_ACTION_ROUTINE	Literal	85	647 842 933
CRD\$K_LAST_ENTRY	Literal	85	
CRD\$K_LAST_FUNCTION	Literal	85	
CRD\$K_LAST_HOOK_POINT	Literal	85	
CRD\$K_LAST_INTERNAL_ERROR	Literal	85	
CRD\$K_LAST_TYPE	Literal	85	

Symbol	Type	Defined	Referenced	...
CRD\$K_LESI_ENWCA	Literal	85		
CRD\$K_LESI_EVRMB_0	Literal	85		
CRD\$K_LESI_EVRMB_1	Literal	85		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	85		
CRD\$K_LEVEL_4_PASSED	Literal	85	257	844 940
CRD\$K_LOAD_AUTOSIZER	Literal	85	257	846 943
CRD\$K_LOAD_ERROR	Literal	85	257 868	973
CRD\$K_LOAD_GENERAL_COM	Literal	85	257	851 950
CRD\$K_LOAD_LOAD_COM	Literal	85	257	857 958
CRD\$K_LOAD_SELECT_COM	Literal	85	257	860 961
CRD\$K_LOAD_SET_EVENT_COM	Literal	85	257	859 960
CRD\$K_LOAD_SET_FLAGS_COM	Literal	85	257	858 959
CRD\$K_LOAD_START_COM	Literal	85	257	861 962
CRD\$K_LOAD_SUP_FILE	Literal	85		
CRD\$K_MM_INTERNAL_ERROR	Literal	85		
CRD\$K_NEW_LINE	Literal	85		
CRD\$K_NEW_STATE	Literal	Lib03	678	
CRD\$K_NUMB_STATES	Unbound		140	145 170 201 222 257 266 281 284 293
		302	311	320 328
		394	399	408 417 427 442 457 462 467 476 479 488 497 500 515 530 545 560 575 590
		605	614	
	Literal	Lib03	222	257 266 281 284 293 302 311 320 328
		336	347	362 371 380 385 394 399 408 417 427 442 457 462 467 476 479 488 497 500 515 530 545 560 575 590 605 614 617
CRD\$K_NUMB_TYPECODES	Literal	Lib03	211	617
CRD\$K_PREPARATION_ERROR	Literal	85	488	871 976
CRD\$K_PREPARATION_ERROR_TEXT	Literal	85		
CRD\$K_REPEAT_TURING	Unbound		776	
	Literal	Lib03	844	846 847 848 849 851 852 853 855 857
		858	859	860 861 863 864 866 867 868 869
		870	871	
CRD\$K_RUNTIME	Literal	85		
CRD\$K_SAME_LINE	Literal	85		
CRD\$K_SET_EVENT_ARGS	Literal	85		
CRD\$K_SET_FLAGS_ARGS	Literal	85		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	85	257	855 955
CRD\$K_START	Literal	85	875	939
CRD\$K_START_AUTOSIZER	Literal	85	257	848 945
CRD\$K_START_ERROR	Literal	85	257	869 974
CRD\$K_START_QUALIFIERS	Literal	85		
CRD\$K_STAR_LINE	Literal	85		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	85	257	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	85	257	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	85	257	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	85	257	266 281 293 302 311 320 328 336 347
		362	371	408 417 427 442 457 467 476 488 497 515 530 545 560 575 590 605 614
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	85	222	257 266 281 293 302 311 320 328 336
		347	362	371 380 385 394 399 408 417 427 442 457 462 467 476 488 497 515 530 545 560 575 590 605 614

ZZ-ENSAB-2.0		CRD\$Print_Action_Routine Routine		C 11		19-Sep-1985		Fiche 5 Frame C11		Sequence 956			
CRDSTATE ***		CRDSTATE Module		19-Sep-1985 17:00:21		VAX-11 Bliss-32 V4.1-746		Page 71					
01-04		CRD\$Print_Action_Routine Routine		3-Jan-1985 17:02:14		[DS.CRD.V020]CRDSTATE.B32;1		(21)					
Symbol		Type Defined Referenced ...											
CRD\$K_STATE_AUTOSIZER_SET_FLAGS		Literal	85	257	281	347	362	442	457	515	530	545	560
575		590	605										
CRD\$K_STATE_DIAGNOSTIC_ERROR		Literal	85	222	257	266	281	293	302	311	320	328	336
347		362	371	380	394	408	417	427	442	457			
476		488	497	515	530	545	560	575	590	605			
614													
CRD\$K_STATE_DIAGNOSTIC_RUNNING		Literal	85	222	257	266	281	293	302	311	320	347	362
371		380	385	394	399	408	417	427	442	457			
462		467	476	488	497	515	530	545	560	575			
590		605	614										
CRD\$K_STATE_DONE_DIAGNOSTICS		Literal	85	257									
CRD\$K_STATE_DONE_GENERAL_COMS		Literal	85	257									
CRD\$K_STATE_DUMMY_1		Literal	85										
CRD\$K_STATE_DUMMY_10		Literal	85										
CRD\$K_STATE_DUMMY_12		Literal	85										
CRD\$K_STATE_DUMMY_13		Literal	85										
CRD\$K_STATE_DUMMY_2		Literal	85										
CRD\$K_STATE_DUMMY_3		Literal	85										
CRD\$K_STATE_DUMMY_4		Literal	85										
CRD\$K_STATE_DUMMY_6		Literal	85										
CRD\$K_STATE_DUMMY_7		Literal	85										
CRD\$K_STATE_DUMMY_8		Literal	85										
CRD\$K_STATE_EXIT_CRD		Literal	85	257									
CRD\$K_STATE_INTERNAL_ERROR		Literal	85	222	257	266	281	284	293	302	311	320	328
336		347	362	371	380	385	394	399	408	417			
427		442	457	462	467	476	479	488	497	500			
515		530	545	560	575	590	605	614					
CRD\$K_STATE_LAST_STATE		Literal	85										
CRD\$K_STATE_LEVEL_4_PASSED		Literal	85	257									
CRD\$K_STATE_LOAD_AUTOSIZER		Literal	85	257									
CRD\$K_STATE_LOAD_ERROR		Literal	85	222	257	266	281	293	302	311	320	328	336
347		362	371	380	394	408	417	427	442	457			
476		488	497	515	530	545	560	575	590	605			
614													
CRD\$K_STATE_LOAD_GENERAL_COM		Literal	85	257									
CRD\$K_STATE_LOAD_LOAD_COM		Literal	85	257									
CRD\$K_STATE_LOAD_SELECT_COM		Literal	85	257	281	347	362	442	457	515	530	545	560
575		590	605										
CRD\$K_STATE_LOAD_SET_EVENT_COM		Literal	85	257	281	347	362	442	457	515	530	545	560
575		590	605										
CRD\$K_STATE_LOAD_SET_FLAGS_COM		Literal	85	257	281	347	362	442	457	515	530	545	560
575		590	605										
CRD\$K_STATE_LOAD_START_COM		Literal	85	257	281	347	362	442	457	515	530	545	560
575		590	605										
CRD\$K_STATE_PREPARATION_ERROR		Literal	85	222	257	266	281	293	302	311	320	328	336
362		371	380	394	408	417	427	442	457	476			
488		497	515	530	545	560	575	590	605	614			
CRD\$K_STATE_SET_UP_DIAGNOSTIC		Literal	85	257									
CRD\$K_STATE_START		Literal	85	222	257	266	281	293	302	311	320	328	336
347		362	371	380	385	394	399	408	417	427			
442		457	462	467	476	488	497	500	515	530			
545		560	575	590	605	614	646						
CRD\$K STATE_START_AUTOSIZER		Literal	85	257	281	347	362	442	457	515	530	545	560

Symbol	Type Defined Referenced ...															
CRD\$K_STATE_START_ERROR	575	590	605	85	222	257	266	281	293	302	311	320	328	336		
	347	362	371	380	394	408	417	427	442	457						
	467	476	488	497	515	530	545	560	575	590						
	605	614														
CRD\$K_SUCCESS	Literal	Lib03	836													
CRD\$K_TEST_START_TEXT	Literal		85													
CRD\$K_TQ_INTERNAL_ERROR	Literal		85													
CRD\$K_TYPECODE	Literal		85													
CRD\$K_UA_0_EVDLB	Literal		85													
CRD\$K_UA_0_EVDLC	Literal		85													
CRD\$K_UA_0_EVDLD	Literal		85													
CRD\$K_UA_0_EVRLA_0	Literal		85													
CRD\$K_UA_0_LAST_DIAGNOSTIC	Literal		85													
CRD\$K_UA_1_EVDLB	Literal		85													
CRD\$K_UA_1_EVDLC	Literal		85													
CRD\$K_UA_1_EVDLD	Literal		85													
CRD\$K_UA_1_EVRLA_0	Literal		85													
CRD\$K_UA_1_EVRLA_1	Literal		85													
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal		85													
CRD\$K_UA_2_EVDLB	Literal		85													
CRD\$K_UA_2_EVDLC	Literal		85													
CRD\$K_UA_2_EVDLD	Literal		85													
CRD\$K_UA_2_EVRLA_0	Literal		85													
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal		85													
CRD\$K_UA_3_EVDLB	Literal		85													
CRD\$K_UA_3_EVDLC	Literal		85													
CRD\$K_UA_3_EVDLD	Literal		85													
CRD\$K_UA_3_EVRLA_0	Literal		85													
CRD\$K_UA_3_EVRLA_1	Literal		85													
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal		85													
CRD\$LEVEL_4_PASSED	ExtRout	Lib03	844c													
CRD\$LOAD_AUTOSIZER	ExtRout	Lib03	846c													
CRD\$LOAD_ERROR	ExtRout	Lib03	868c													
CRD\$LOAD_GENERAL_COM	ExtRout	Lib03	851c													
CRD\$LOAD_LOAD_COM	ExtRout	Lib03	857c													
CRD\$LOAD_SELECT_COM	ExtRout	Lib03	860c													
CRD\$LOAD_SET_EVENT_COM	ExtRout	Lib03	859c													
CRD\$LOAD_SET_FLAGS_COM	ExtRout	Lib03	858c													
CRD\$LOAD_START_COM	ExtRout	Lib03	861c													
CRD\$PREPARATION_ERROR	ExtRout	Lib03	871c													
CRD\$PRINT	External	Lib03	793ac	804ac	829ac	935ac	936ac	937ac	939ac	940ac	941ac	943ac				
	944ac	945ac	946ac	947ac	948ac	950ac	951ac	952ac	953ac	955ac						
	956ac	958ac	959ac	960ac	961ac	962ac	963ac	964ac	966ac	967ac						
	968ac	969ac	971ac	972ac	973ac	974ac	975ac	976ac	977ac	981ac						
CRD\$PRINT_ACTION_ROUTINE	GlobRout	903	Lib03e	104f	835c	840c										
CRD\$PRINT_TYPECODE_NAME	ExtRout	Lib03	799c													
CRD\$SET_UP_DIAGNOSTIC	ExtRout	Lib03	855c													
CRD\$START_AUTOSIZER	ExtRout	Lib03	848c													
CRD\$START_ERROR	ExtRout	Lib03	869c													
CRD\$TURNING_MACHINE	Unbound		778													
	GlobRout	713	Lib03e	101f	844c	846c	847c	848c	849c	851c	852c	853c				
		855c	857c	858c	859c	860c	861c	863c	864c	866c	867c					

Symbol	Type	Defined	Referenced ...
CRD_ASSERT	Macro	868c	869c 870c 871c
DS\$ABORT	GlobLit	Lib03	211
DS\$ASKADR	GlobLit	88	
DS\$ASKDATA	GlobLit	88	
DS\$ASKLGCL	GlobLit	88	
DS\$ASKSTR	GlobLit	88	
DS\$ASKVLD	GlobLit	88	
DS\$ATTACH	GlobLit	88	
DS\$BGNSUB	GlobLit	88	
DS\$BRANCH	GlobLit	88	
DS\$BREAK	GlobLit	88	
ExtRout	790	790c	
DS\$CANWAIT	GlobLit	88	
DS\$CHANNEL	GlobLit	88	
DS\$CKLOOP	GlobLit	88	
DS\$CLRVEC	GlobLit	88	
DS\$CNTRLC	GlobLit	88	
DS\$CVTREG	GlobLit	88	
DS\$ENDPASS	GlobLit	88	
DS\$ENDSUB	GlobLit	88	
DS\$ERRDEV	GlobLit	88	
DS\$ERRHARD	GlobLit	88	
DS\$ERRPREP	GlobLit	88	
DS\$ERRSOFT	GlobLit	88	
DS\$ERRSYS	GlobLit	88	
DS\$ESCAPE	GlobLit	88	
DS\$FREEDBGSYM	GlobLit	88	88
DS\$GETBUF	GlobLit	88	
DS\$GETTERM	GlobLit	88	
DS\$GPHARD	GlobLit	88	
DS\$HELP	GlobLit	88	
DS\$INITSCB	GlobLit	88	
DS\$INLOOP	GlobLit	88	
DS\$K_PRINTB	Literal	84	
Literal	793		
Literal	804		
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DS\$K_PRINTF	Literal	84	
Literal	793	793	
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DS\$K_PRINTI	Literal		84
	Literal	793	
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DS\$K_PRINTX	Literal		84
	Literal	793	

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine H 11
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H11
01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 76

Sequence 961

Symbol Type Defined Referenced ...

Literal	804		
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DS\$K_TYPE_ABORT_PROGRAM	Literal	84	
Literal	793		
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ABORT_TEST	Literal	84	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_COMMAND_ERR	Literal	84	
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DS\$K
TYPE_COMMAND_OUT
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_DS_PROMPT	Literal		84
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Symbol Type Defined Referenced ...

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 DS\$K_TYPE_DS_START Literal 84
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRDEV	Literal		84
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DS\$K_TYPE_ERRHARD	Literal		84
Literal	793		
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Symbol	Type	Defined	Referenced ...
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DS\$K_TYPE_ERROR_BODY	Literal	84	
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ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine C 12
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame C12
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 84

Sequence 969

Symbol Type Defined Referenced ...

Literal	950		
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DS\$K_TYPE_ERROR_END	Literal	84	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRPREP	Literal		84	
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Symbol	Type	Defined	Referenced	...
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DS\$K	Liter	981		
	TYPE_ERRSUP		Liter	84
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRSYS	Literal	84	
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Symbol	Type	Defined	Referenced ...
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DS\$K_TYPE_ERR_HALT	Literal	84	
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ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine H 12
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H12
01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 89

Sequence 974

Symbol Type Defined Referenced ...

	Literal	973		
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DS\$K_TYPE_EXCEPTION	Literal	84		
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	Literal	973		
	Literal	974		
	Literal	975		
	Literal	976		
	Literal	977		
	Literal	981		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	84		
	Literal	793		
	Literal	804		
	Literal	829		
	Literal	935		
	Literal	936		

Symbol	Type	Defined	Referenced ...
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Literal	937		
Literal	939		
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Literal	981		
DS\$K	TYPE FIRST PASS	Literal	84
Literal	793		
Literal	804		
Literal	829		
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Literal	940		
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Literal	950		
Literal	951		

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine J 12
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame J12
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 91

Sequence 976

Symbol Type Defined Referenced ...

Literal	952		
Literal	953		
Literal	955		
Literal	956		
Literal	958		
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Literal	976		
Literal	977		
Literal	981		
DS\$K_TYPE_GENERAL	Literal	84	645
Literal	793		
Literal	804		
Literal	829		
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Literal	936		
Literal	937		
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Literal	940		
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Symbol Type Defined Referenced ...

Literal	967			
Literal	968			
Literal	969			
Literal	971			
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Literal	976			
Literal	977			
Literal	981			
DS\$K_TYPE_GENERAL_ERROR	Literal		84	
Literal	793			
Literal	804			
Literal	829			
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Literal	937			
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Literal	940			
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Literal	976			
Literal	977			
Literal	981			
DS\$K_TYPE_NO_TESTS	Literal		84	

Symbol ----- Type Defined Referenced ...

Literal	793		
Literal	804		
Literal	829		
Literal	935		
Literal	936		
Literal	937		
Literal	939		
Literal	940		
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Literal	976		
Literal	977		
Literal	981		
DS\$K_TYPE_PARAM_ERROR	Literal	84	
Literal	793		
Literal	804		
Literal	829		
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Literal	937		
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Literal	940		
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Literal	945		

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine M 12
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 Page 94 Sequence 979
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21)

Symbol Type Defined Referenced ...

Literal	946		
Literal	947		
Literal	948		
Literal	950		
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Literal	977		
Literal	981		
DS\$K_TYPE_PROGRAM_END	Literal	84	
Literal	793		
Literal	804		
Literal	829		
Literal	935		
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Literal	937		
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Literal	940		
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Literal	960		

Symbol	Type	Defined	Referenced	...
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L i t e r a l	967			
L i t e r a l	968			
L i t e r a l	969			
L i t e r a l	971			
L i t e r a l	972			
L i t e r a l	973			
L i t e r a l	974			
L i t e r a l	975			
L i t e r a l	976			
L i t e r a l	977			
L i t e r a l	981			
DS\$K_TYPE_PROGRAM_INFO	L i t e r a l	84		
L i t e r a l	793			
L i t e r a l	804			
L i t e r a l	829			
L i t e r a l	935			
L i t e r a l	936			
L i t e r a l	937			
L i t e r a l	939			
L i t e r a l	940			
L i t e r a l	941			
L i t e r a l	943			
L i t e r a l	944			
L i t e r a l	945			
L i t e r a l	946			
L i t e r a l	947			
L i t e r a l	948			
L i t e r a l	950			
L i t e r a l	951			
L i t e r a l	952			
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L i t e r a l	963			
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L i t e r a l	966			
L i t e r a l	967			
L i t e r a l	968			
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L i t e r a l	974			

Symbol ----- Type Defined Referenced ...

	Literal	975	
	Literal	976	
	Literal	977	
	Literal	981	
DS\$K	TYPE_PROGRAM_START	Literal	84
	Literal	793	
	Literal	804	
	Literal	829	
	Literal	935	
	Literal	936	
	Literal	937	
	Literal	939	
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	Literal	981	
DS\$K	TYPE_QIO_INVADP	Literal	84
	Literal	793	
	Literal	804	
	Literal	829	
	Literal	935	
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	Literal	937	
	Literal	939	

Symbol	Type	Defined	Referenced	...
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Literal	940			
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Literal	981			
DS\$K_TYPE_QIO_NODRIVER	Literal	84		
Literal	793			
Literal	804			
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Symbol ----- Type Defined Referenced ...

Literal	955		
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Literal	981		
DS\$K_TYPE_QIO_WRONGVER	Literal	84	
Literal	793		
Literal	804		
Literal	829		
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Literal	968		

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine E 13
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame E13
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 99

Sequence 984

Symbol Type Defined Referenced ...

	Literal	969	
	Literal	971	
	Literal	972	
	Literal	973	
	Literal	974	
	Literal	975	
	Literal	976	
	Literal	977	
	Literal	981	
DS\$K_TYPE_SCRIPT_ECHO	Literal		84
	Literal	793	
	Literal	804	
	Literal	829	
	Literal	935	
	Literal	936	
	Literal	937	
	Literal	939	
	Literal	940	
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	Literal	972	
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	Literal	976	
	Literal	977	
	Literal	981	
DS\$K_TYPE_SCRIPT_PNF	Literal		84
	Literal	793	
	Literal	804	

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine F 13
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame F13
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 100

Sequence 985

Symbol Type Defined Referenced ...

Literal	829		
Literal	935		
Literal	936		
Literal	937		
Literal	939		
Literal	940		
Literal	941		
Literal	943		
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Literal	977		
Literal	981		
DS\$K TYPE_SCRIPT_PROMPT	Literal	84	
Literal	793		
Literal	804		
Literal	829		
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Literal	940		
Literal	941		
Literal	943		
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Literal	946		
Literal	947		

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 Page 101
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21)

G 13

19-Sep-1985

Fiche 5 Frame G13

Sequence 986

Symbol Type Defined Referenced ...

Literal	948		
Literal	950		
Literal	951		
Literal	952		
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Literal	981		
DS\$K TYPE SCRIPT SKIP	Literal	84	
Literal	793		
Literal	804		
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Literal	962		

L i t e r a l	963
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L i t e r a l	967
L i t e r a l	968
L i t e r a l	969
L i t e r a l	971
L i t e r a l	972
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L i t e r a l	974
L i t e r a l	975
L i t e r a l	976
L i t e r a l	977
L i t e r a l	981

DS\$K_TYPE_SEQUENCE_ERROR Literal	84
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L i t e r a l	793
L i t e r a l	804
L i t e r a l	829
L i t e r a l	935
L i t e r a l	936
L i t e r a l	937
L i t e r a l	939
L i t e r a l	940
L i t e r a l	941
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L i t e r a l	945
L i t e r a l	946
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L i t e r a l	948
L i t e r a l	950
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L i t e r a l	952
L i t e r a l	953
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L i t e r a l	964
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L i t e r a l	967
L i t e r a l	968
L i t e r a l	969
L i t e r a l	971
L i t e r a l	972
L i t e r a l	973
L i t e r a l	974
L i t e r a l	975
L i t e r a l	976

Symbol	Type	Defined	Referenced	...

	Literal	977		
	Literal	981		
DS\$K	TYPE_START_ERR	Literal	84	
	Literal	793		
	Literal	804		
	Literal	829		
	Literal	935		
	Literal	936		
	Literal	937		
	Literal	939		
	Literal	940		
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	Literal	976		
	Literal	977		
	Literal	981		
DS\$K	TYPE_START_LIST	Literal	84	
	Literal	793		
	Literal	804		
	Literal	829		
	Literal	935		
	Literal	936		
	Literal	937		
	Literal	939		
	Literal	940		
	Literal	941		

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine J 13
 CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame J13 Sequence 989
 01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 104

Symbol	Type	Defined	Referenced	...
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Literal	943			
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Literal	976			
Literal	977			
Literal	981			
DS\$K_TYPE_SUMMARY	Literal	84		
Literal	793			
Literal	804			
Literal	829			
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Literal	937			
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Symbol Type Defined Referenced ...

Literal	958		
Literal	959		
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Literal	976		
Literal	977		
Literal	981		
DS\$K_TYPE_USER_PROMPT	Literal	84	
Literal	793		
Literal	804		
Literal	829		
Literal	935		
Literal	936		
Literal	937		
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Literal	940		
Literal	941		
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Literal	969		
Literal	971		

[illegible]

Symbol	Type	Defined	Referenced ...
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HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	85	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	85	
HS\$K_ACTION_DO_NOTHING	Literal	85	
HS\$K_ACTION_DUMMY_3	Literal	85	
HS\$K_ACTION_DUMMY_4	Literal	85	
HS\$K_ACTION_DUMMY_5	Literal	85	
HS\$K_ACTION_DUMMY_6	Literal	85	
HS\$K_ACTION_INIT_HS	Literal	85	
HS\$K_ACTION_INTERNAL_ERROR	Literal	85	
HS\$K_ACTION_LAST_ACTION	Literal	85	
HS\$K_ACTION_LOAD_ERROR	Literal	85	
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	85	
HS\$K_ACTION_LOAD_LOAD_COM	Literal	85	
HS\$K_ACTION_LOAD_SELECT_COM	Literal	85	
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	85	
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	85	
HS\$K_ACTION_LOAD_START_COM	Literal	85	
HS\$K_ACTION_PREPARATION_ERROR	Literal	85	
HS\$K_ACTION_START_ERROR	Literal	85	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	85	
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	85	
HS\$K_STATE_CHANGE_TABLE	Literal	85	
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	85	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	85	
HS\$K_STATE_DONE_GENERAL_COMS	Literal	85	
HS\$K_STATE_DUMMY_1	Literal	85	
HS\$K_STATE_DUMMY_2	Literal	85	
HS\$K_STATE_DUMMY_3	Literal	85	
HS\$K_STATE_DUMMY_4	Literal	85	
HS\$K_STATE_DUMMY_6	Literal	85	
HS\$K_STATE_INIT_HS	Literal	85	
HS\$K_STATE_INTERNAL_ERROR	Literal	85	
HS\$K_STATE_LAST_STATE	Literal	85	
HS\$K_STATE_LOAD_ERROR	Literal	85	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	85	
HS\$K_STATE_LOAD_LOAD_COM	Literal	85	
HS\$K_STATE_LOAD_SELECT_COM	Literal	85	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	85	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	85	
HS\$K_STATE_LOAD_START_COM	Literal	85	
HS\$K_STATE_PREPARATION_ERROR	Literal	85	
HS\$K_STATE_START_ERROR	Literal	85	

INSERT_ENTRYS	Unbound	160	193	222	257	266	281	293	302	311	320
	328	336	347	362	371	380	385	394	399	408	
	417	427	442	457	462	467	476	488	497	500	
	515	530	545	560	575	590	605	614			
Macro	155	222	257	266	281	293	302	311	320	328	336
	347	362	371	380	385	394	399	408	417	427	
	442	457	462	467	476	488	497	500	515	530	
	545	560	575	590	605	614					
INSERT_N	Unbound	199	222	257	266	281	293	302	311	320	328
	336	347	362	371	380	385	394	399	408	417	
	427	442	457	462	467	476	488	497	500	515	

.....

[illegible]

Symbol Type Defined Referenced ...

Local	864	864=	864.
Local	866	866=	866.
Local	867	867=	867.
Local	868	868=	868.
Local	869	869=	869.
Local	870	870=	870.
Local	871	871=	871.
SYS\$ALLOC	GlobLit	88	
SYS\$ASCTIM	GlobLit	88	
SYS\$ASSIGN	GlobLit	88	
SYS\$BINTIM	GlobLit	88	
SYS\$CANCEL	GlobLit	88	
SYS\$CANTIM	GlobLit	88	
SYS\$CLOSE	GlobLit	88	
SYS\$CLREF	GlobLit	88	
SYS\$CONNECT	GlobLit	88	
SYS\$DALLOC	GlobLit	88	
SYS\$DASSGN	GlobLit	88	
SYS\$DISCONNECT	GlobLit	88	88
SYS\$FAO	GlobLit	88	
SYS\$FAOL	GlobLit	88	
SYS\$GET	GlobLit	88	
SYS\$GETCHN	GlobLit	88	
SYS\$GETTIM	GlobLit	88	
SYS\$GTCHAN	GlobLit	88	
SYS\$HIBER	GlobLit	88	
SYS\$LKWSET	GlobLit	88	
SYS\$NUMTIM	GlobLit	88	
SYS\$OPEN	GlobLit	88	
SYS\$QIO	GlobLit	88	
SYS\$QIOW	GlobLit	88	
SYS\$READ	GlobLit	88	
SYS\$READEF	GlobLit	88	
SYS\$SETAST	GlobLit	88	
SYS\$SETEF	GlobLit	88	
SYS\$SETIMR	GlobLit	88	
SYS\$SETPRI	GlobLit	88	
SYS\$SETPRT	GlobLit	88	
SYS\$SETRWN	GlobLit	88	
SYS\$ULKPAG	GlobLit	88	
SYS\$ULWSET	GlobLit	88	
SYS\$UNWIND	GlobLit	88	
SYS\$WAITFR	GlobLit	88	
SYS\$WFLAND	GlobLit	88	
SYS\$WFLOR	GlobLit	88	
TQ\$K_ACTION_ADVANCE_STATE	Literal	85	
TQ\$K_ACTION_CHANGE_TABLE	Literal	85	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	85	85
TQ\$K_ACTION_DO_NOTHING	Literal	85	
TQ\$K_ACTION_DUMMY_3	Literal	85	
TQ\$K_ACTION_DUMMY_4	Literal	85	
TQ\$K_ACTION_DUMMY_5	Literal	85	
TQ\$K_ACTION_GET_DDB	Literal	85	

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_INIT_TQ	Literal	85		
TQ\$K_ACTION_INTERNAL_ERROR	Literal		85	
TQ\$K_ACTION_LAST_ACTION	Literal	85		
TQ\$K_STATE_CHANGE_TABLE	Literal	85		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal		85	
TQ\$K_STATE_DUMMY_1	Literal	85		
TQ\$K_STATE_DUMMY_2	Literal	85		
TQ\$K_STATE_DUMMY_3	Literal	85		
TQ\$K_STATE_DUMMY_4	Literal	85		
TQ\$K_STATE_DUMMY_5	Literal	85		
TQ\$K_STATE_GET_DDB	Literal	85		
TQ\$K_STATE_INIT_TQ	Literal	85		
TQ\$K_STATE_INTERNAL_ERROR	Literal		85	
TQ\$K_STATE_LAST_STATE	Literal	85		
TYPECODE	Unbound	778		
RoutForm	713	799.	804.	807.
	853.	855.	857.	858.
	867.	868.	869.	870.
			844.	846.
			847.	848.
			849.	851.
			852.	
			859.	860.
			861.	863.
			864.	866.

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]	CRDSTATE.B32;1
2	Module	CRDSTATE	
72	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]	DS.L32;17
75	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]	DIAG.L32;30
78	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]	CRD.L32;1
81	Library #4	SYS\$COMMON:[SYSLIB]	LIB.L32;2
985	Eludom	CRDSTATE	

KEY TO REFERENCE TYPE FLAGS

. Fetch
 = Store
 c Routine call
 a Address use
 @ Indirect use
 e External, external routine, or external literal declaration
 f Forward or forward routine declaration
 h Condition handler enabling
 m Map declaration
 u Undeclare declaration

Library Statistics				
----- Symbols -----				
File	Total	Loaded	Percent	Pages Processing Mapped Time

ZZ-ENSAB-2.0 CRD\$Print_Action_Routine Routine E 14
CRDSTATE *** CRDSTATE Module 19-Sep-1985 17:00:21 VAX-11 Bliss-32 V4.1-746 Fiche 5 Frame E14 Sequence 997
01-04 CRD\$Print_Action_Routine Routine 3-Jan-1985 17:02:14 [DS.CRD.V020]CRDSTATE.B32;1 (21) Page 112

```
; DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
;      671      0      0      46      00:00.1
; DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
;      923      4      0      94      00:00.1
; DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
;      486      45      9      62      00:00.1
; SYS$COMMON:[SYSLIB]LIB.L32;2      18619      3      0      1000      00:04.4
```

; COMMAND QUALIFIERS

; BLISS CRDSTATE.B32/LIST=CRDSTATE.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDSTATE.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

```
; Size: 1250 code + 6610 data bytes
; Run Time: 02:57.2
; Elapsed Time: 06:32.6
; Lines/CPU Min: 333
; Lexemes/CPU-Min: 83671
; Memory Used: 877 pages
; Compilation Complete
```

```

: 0001 0 xTITLE '*** CRDSTOP Module'
: 0002 0 MODULE CRDSTOP ( ! Routines to handle stopping CRD
: 0003 0 IDENT = 'V01.20' ) =
: 0004 0 !+
: 0005 0 ! COPYRIGHT (c) 1980, 1981
: 0006 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0007 0 !
: 0008 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0009 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0010 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0011 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0012 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0013 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0014 0 ! REMAIN IN DEC.
: 0015 0 !
: 0016 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0017 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0018 0 ! CORPORATION.
: 0019 0 !
: 0020 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0021 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0022 0 ! -
: 0023 0 !+
: 0024 0 ! Facility:
: 0025 0 !
: 0026 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
: 0027 0 !
: 0028 0 ! Abstract:
: 0029 0 !
: 0030 0 ! This module contains those routine(s) necessary to stop the Customer Runnable
: 0031 0 ! Diagnostics image.
: 0032 0 !
: 0033 0 ! Author:
: 0034 0 !
: 0035 0 ! Jack Stansbury
: 0036 0 !
: 0037 0 ! Creation Date:
: 0038 0 !
: 0039 0 ! April 13, 1982
: 0040 0 !
: 0041 0 ! Version:
: 0042 0 !
: 0043 0 ! 6.9
: 0044 0 !
: 0045 0 ! Modified By:
: 0046 0 !
: 0047 0 ! 01 Jack Stansbury, 2-July-1982, Version 1.0
: 0048 0 ! Added code in CRD$Stop routine at the end to transfer what is in the CRD$GL_CRD$Debug_Vector
: 0049 0 ! to the dispatch vector area. This transfer must take place AFTER all $CRD_Print's have taken
: 0050 0 ! place!!!!
: 0051 0 !
: 0052 0 ! 02 Jack Stansbury, Version 1.0, July 9, 1982
: 0053 0 ! Added the AutoTest_End_Message to the Internal_Error stop message.
: 0054 0 !
: 0055 0 ! 03 Jack Stansbury, Version 1.1, July 25, 1982

```

ZZ-ENSAB-2.0	*** CRDSTOP Module	G 14	19-Sep-1985	Fiche 5	Frame G14	Sequence 999
CRDSTOP ***	CRDSTOP Module	19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746		Page 2		
V01.20	23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1	(1)				


```

: 0056 0 ! Changed the printing of the messages to be compatible with Menu Test. This entails adding the
: 0057 0 ! CRD$GT_Menu and CRD$GT_Auto messages to the CRDMESSAG module, and using these when this routine
: 0058 0 ! prints messages.
: 0059 0 !
: 0060 0 ! 04 Jack Stansbury, Version 1.1, July 27, 1982
: 0061 0 ! Added code to dispose of the Device Data Blocks before CRD$Stop exits. This is so that the memory
: 0062 0 !
: 0063 0 ! 05 Jack Stansbury, Version 1.1, July 27, 1982
: 0064 0 ! Added two mode CRD$K_Exit_CRD reasons for stopping CRD. These are for Menu Test.
: 0065 0 !
: 0066 0 ! 06 Jack Stansbury, Version 1.1, August 20, 1982
: 0067 0 ! Changed the fields in the DDBs.
: 0068 0 !
: 0069 0 ! 07 Jack Stansbury, Version 1.1, August 20, 1982
: 0070 0 ! Added code to call the Menu_Cleanup routine - to clean up Menu Test.
: 0071 0 !
: 0072 0 ! 08 John Ciukaj, Version 1.1, Sept 1, 1982
: 0073 0 ! Refined 'stop reason' printouts for CRD MENU
: 0074 0 !
: 0075 0 ! 09 Jack Stansbury, Version 1.1, September 12, 1982
: 0076 0 ! Added code to print the correct 'RETURNING TO . . .' message.
: 0077 0 !
: 0078 0 ! 10 John Ciukaj, Version 1.1, September 16, 1982
: 0079 0 ! Added call to MEN$FncTst_CmplErr_Status' in
: 0080 0 ! CRD$K_Exit_CRD_Operator stop reason.
: 0081 0 !
: 0082 0 ! 11 Jack Stansbury, Version 1.1, September 21, 1982
: 0083 0 ! Changed the CRD$K_Exit literals to AUTO$K_Exit_ and MENU$K_Exit.
: 0084 0 ! Also changed the spelling of the DDB$V_Status bits.
: 0085 0 !
: 0086 0 ! 12 Jack Stansbury, Version 1.1, September 24, 1982
: 0087 0 ! Changed the code for the above change in mnemonics (11).
: 0088 0 !
: 0089 0 ! 13 Jack Stansbury, Version 1.1, September ??, 1982
: 0090 0 ! ???
: 0091 0 !
: 0092 0 ! 14 Jack Stansbury, Version 1.1, September 28, 1982
: 0093 0 ! Made changes for Auto going to Menu if no devices are bad.
: 0094 0 !
: 0095 0 ! 15 Jack Stansbury, Version 1.1, March 3, 1983
: 0096 0 ! Straigtened out the Debug_Vector stuff - correct length
: 0097 0 ! for the Dispatch_Vectors, etc. Added CRD_Assert statements
: 0098 0 ! for the various dispatch vector lengths.
: 0099 0 !
: 0100 0 ! 16 John Ciukaj Version 1.2 4-Apr-1983
: 0101 0 ! - Changed references to CRD bits in DSA Flags to
: 0102 0 ! distinguish between Online and Offline.
: 0103 0 ! - Added Stop reason for CRD AUTO in CRD$Stop
: 0104 0 ! - Added flag to indicate CRD MENU invoked from completion
: 0105 0 ! of CRD AUTO
: 0106 0 !
: 0107 0 ! 17 Scott Cohen Version 1.2 9-Jun-1983
: 0108 0 ! For soft console support
: 0109 0 ! - Added new routine CRD$Screen_Pause,
: 0110 0 ! - $SCREEN_Literals definitions,

```

ZZ-ENSAB-2.0 *** CRDSTOP Module
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746
 V01.20 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 (1)

H 14
 19-Sep-1985
 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746

Fiche 5 Frame H14
 Page 3

Sequence 1000

```

; 0111 0 | - new routine CRD$Auto_Summary,
; 0112 0 |
; 0113 0 | 18 Scott Cohen Version 1.3 23-Sep-1983
; 0114 0 | Added new type of soft console the PEARL
; 0115 0 |
; 0116 0 | 19 Ron Parker October 22,1984
; 0117 0 | - Added Menu_test_on handling
; 0118 0 |
; 0119 0 | 20 Amy Iorio July 16, 1985
; 0120 0 | - Put screen clear into selectone format and
; 0121 0 | added handling of VT200.
; 0122 0 |
; 0123 0 | --
; 0124 0 | xSBTTL 'Libraries'
; 0125 1 | BEGIN ! Begin the CRDSTOP module
; 0126 1 |
; 0127 1 | LIBRARY
; 0128 1 | '$DS'; ! Use DS.L32 first
; 0129 1 |
; 0130 1 | LIBRARY
; 0131 1 | '$Diag'; ! Use Diag.L32 second
; 0132 1 |
; 0133 1 | LIBRARY
; 0134 1 | '$CRD'; ! Use CRD.L32 third
; 0135 1 |
; 0136 1 | LIBRARY
; 0137 1 | 'Sys$Library:Lib'; ! Use Lib as last resort
; 0138 1 | xSBTTL 'Table of Contents'
; 0139 1 |
; 0140 1 | FORWARD ROUTINE
; 0141 1 | CRD$Control_C_Handler : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0142 1 | ! Handles Control-C's during the running of CRD
; 0143 1 |
; 0144 1 | CRD$Stop : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0145 1 | ! Stops the CRD process.
; 0146 1 |
; 0147 1 | CRD$Auto_Summary : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0148 1 | ! Print a summary of Auto Test.
; 0149 1 |
; 0150 1 | CRD$Screen_Pause : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0151 1 | ! Handles soft console issues.
; 0152 1 | xSBTTL 'Included Macros and Literals'
; 0153 1 |
; 0154 1 | $CRD_Literals; ! Define the CRD literals
; 0155 1 | $DS_DSADef; ! Define the DSA locations
; 0156 1 | $SCREEN_Literals; ! Define the SCREEN operation literals
; 0157 1 | xSBTTL 'Psect Definitions'
; 0158 1 |
; 0159 1 | PSECT
; 0160 1 | PLIT = Data (NOEXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0161 1 |
; 0162 1 | PSECT
; 0163 1 | CODE = Code ( EXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0164 1 |
; 0165 1 | PSECT

```

```

: 0166 1      OWN      = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0167 1
: 0168 1 PSECT
: 0169 1      GLOBAL = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0170 1 xSBTTL 'Module-Global Static Storage'
: 0171 1
: 0172 1    ModNam ('CRDSTOP');    ! Module name for ErrSup macro
: 0173 1 xSBTTL 'Module-Global Static Storage'
: 0174 1
: 0175 1 GLOBAL
: 0176 1    CRD$GB_Auto_To_Menu_Off : BYTE INITIAL (BYTE(False)),
: 0177 1      ! Flag indicates that CRD MENU Offline
: 0178 1      ! was invoked from completion of CRD AUTO Offline      [16]
: 0179 1    CRD$GL_CRD_Debug_Vector : VECTOR [CRD$K_Total_Numb_Vectors, LONG];      ![[15]
: 0180 1      ! Storage for debugging information that will be printed by the
: 0181 1      ! DSV$Exit routine (in the Resident-DS).

```



```

; 0182 1 xSBTTL 'CRD$Stop Routine'
; 0183 1
; 0184 1 GLOBAL ROUTINE CRD$Stop (Stop_Reason) : NOVALUE =
; 0185 1
; 0186 1 !+
; 0187 1 ! Functional Description:
; 0188 1
; 0189 1 ! Stop the CRD image in its tracks! Exit to either Console mode of to the Supervisor.  ![[03]
; 0190 1
; 0191 1 ! Formal Input Parameters:
; 0192 1
; 0193 1 ! Stop_Reason : The reason for stopping CRD.
; 0194 1
; 0195 1 ! Formal Output Parameters:
; 0196 1
; 0197 1 ! None
; 0198 1
; 0199 1 ! Side Effects:
; 0200 1
; 0201 1 ! CRD (and the Resident-DS) is stopped.
; 0202 1
; 0203 1 ! Completion Codes:
; 0204 1
; 0205 1 ! None
; 0206 1 !--
; 0207 2 BEGIN ! Routine CRD$Stop
; 0208 2 BIND
; 0209 2 CRD_Dispatch_Vectors = (CRD$AL_CRD_Dispatch_Vectors + 4) : VECTOR [, LONG];
; 0210 2 ! Reference the vectors as an array of longwords
; 0211 2
; 0212 2 ROUTINE Print_Exit_To : NOVALUE = ![[09]
; 0213 3 BEGIN ![[09]
; 0214 3 BIND ROUTINE ![[09]
; 0215 3 DSR$Check_MenuTest_Off_Set = (.CRD$DSR$Check_MenuTest_Off_Set) : JSB_None; ! [16]
; 0216 3 DSR$Check_AutoTest_Off_Set = (.CRD$DSR$Check_AutoTest_Off_Set) : JSB_None; ! [16]
; 0217 3
; 0218 4 IF ( DSR$Check_AutoTest_Off_Set () OR
; 0219 4 ! CRD AUTO
; 0220 4 (DSR$Check_MenuTest_Off_Set () EQL 3) OR
; 0221 4 ! CRD MENU invoked by 'T/M'
; 0222 4 ! console command
; 0223 3 .CRD$GB_Auto_To_Menu_Off) THEN ! CRD MENU invoked from CRD AUTO [16]
; 0224 3
; 0225 4 $CRD_Print (CRD$GT_Exit_To_Console) ![[09]
; 0226 3 ELSE ![[09]
; 0227 3 $CRD_Print (CRD$GT_Exit_To_CLI); ![[09]
; 0228 3 CRD$GB_Auto_To_Menu_Off = False; ! Init Flag [16]
; 0229 2 END; ![[09]

```

```

.TITLE CRDSTOP *** CRDSTOP Module
.IDENT \V01.20\
.PSECT WORK,NOEXE,2

```

```

00 00000 CRD$GB_AUTO_TO_MENU_OFF::
    .BYTE 0
    00001 .BLKB 3
    00004 CRD$GL_CRD_DEBUG_VECTOR::
    .BLKB 100
  
```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2
  
```

```

50 4F 54 53 44 52 43 07 00000 P.AAA: .ASCII <7>\CRDSTOP\
  
```

```

DSA$AL_APTMAIL= 65024
DSA$GL_FLAGS= 65024
DSA$GL_APTCOM= 65028
DSA$GL_PASSES= 65032
DSA$GL_UNITS= 65036
DSA$GL_SECTNO= 65040
DSA$GL_SID= 65044
DSA$GL_MSGTYP= 65088
DSA$GL_ERRNO= 65092
DSA$GL_EVENT= 65096
DSA$GL_SUBTNO= 65100
DSA$GL_TESTNO= 65104
DSA$GL_PASSNO= 65108
DSA$GL_DEVLEN= 65112
DSA$GL_DEVNAM= 65116
DSA$GL_MSGPTR= 65128
  
```

```

$MODULE= P.AAA
.EXTRN CRD$CONTROL_C_HANDLER
.EXTRN CRD$STOP, CRD$AUTO_SUMMARY
.EXTRN CRD$SCREEN_PAUSE
.EXTRN CRD$AL_CRD_DISPATCH_VECTORS
.EXTRN CRD$DSR$CHECK_MENU_TEST_OFF_SET
.EXTRN CRD$DSR$CHECK_AUTOTEST_OFF_SET
.EXTRN CRD$GT_EXIT_TO_CONSOLE
.EXTRN CRD$PRINT, CRD$GT_EXIT_TO_CLI
  
```

```

.PSECT CODE,NOWRT, SHR, PIC,2
  
```

```

OFFC 00000 PRINT_EXIT_TO:
.WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0212
52 00000000G EF D0 00002 MOVL CRD$DSR$CHECK_MENU_TEST_OFF_SET, R2 ; 0215
00000000G FF 16 00009 JSB @CRD$DSR$CHECK_AUTOTEST_OFF_SET ; 0218
0E 50 E8 0000F BLBS R0, 1$ ;
62 16 00012 JSB (R2) ; 0220
03 50 D1 00014 CMPL R0, #3 ;
07 13 00017 BEQL 1$ ;
08 00000000' EF E9 00019 BLBC CRD$GB_AUTO_TO_MENU_OFF, 2$ ; 0223
00000000G EF 9F 00020 1$: PUSHAB CRD$GT_EXIT_TO_CONSOLE ; 0225
06 11 00026 BRB 3$ ;
00000000G EF 9F 00028 2$: PUSHAB CRD$GT_EXIT_TO_CLI ; 0227
01 DD 0002E 3$: PUSHL #1 ;
1A DD 00030 PUSHL #26 ;
00000000G FF 03 FB 00032 CALLS #3, @CRD$PRINT ;
00000000' EF 94 00039 CLRB CRD$GB_AUTO_TO_MENU_OFF ; 0228
04 0003F RET ; 0229
  
```

; Routine Size: 64 bytes, Routine Base: CODE + 0000

```

; 0230 2 CRD$Disable_Ctrl_C ();          ![[12]
; 0231 2 CRD$Clear_Ctrl_C_Flag ();      ![[12]
; 0232 2
; 0233 2
; 0234 2 SELECTONE .Stop_Reason OF
; 0235 2 SET
; 0236 2 [MENU$K_Exit_Sup_File_Not_Found]: ![[12]
; 0237 3 BEGIN ![[12]
; 0238 3 $CRD_Print (MEN$GT_Support_File_Not_Found, MEN$GT_MenFuncSup_File); ![[12]
; 0239 2 END; ![[12]
; 0240 2
; 0241 2 [MENU$K_Exit_Sup_File_Load_Err]: ![[12]
; 0242 3 BEGIN ![[12]
; 0243 3 $CRD_Print (MEN$GT_Support_File_Load_Err, MEN$GT_MenFuncSup_File); ![[12]
; 0244 2 END; ![[12]
; 0245 2
; 0246 2 [AUTO$K_Exit_Control_C]: ![[11]
; 0247 3 BEGIN
; 0248 3 $CRD_Print (CRD$GT_Control_C_Abort, .CRD$GT_Which_CRD); ![[03]
; 0249 2 END;
; 0250 2
; 0251 2 [MENU$K_Exit_Internal_Error, ![[11]
; 0252 2 AUTO$K_Exit_Internal_Error]: ![[11]
; 0253 3 BEGIN
; 0254 3 $CRD_Print (CRD$GT_Internal_Error, .CRD$GT_Which_CRD); ![[03]
; 0255 3 $CRD_Print (CRD$GT_Internal_Error_Abort, .CRD$GT_Which_CRD); ![[03]
; 0256 2 END;
; 0257 2
; 0258 2 [AUTO$K_Exit_NoErrors_Complete]: ![[11]
; 0259 3 BEGIN
; 0260 3 $CRD_Print (CRD$GT_CRD_No_Errors, .CRD$GT_Which_CRD); ![[03]
; 0261 2 END;
; 0262 2
; 0263 2 [AUTO$K_Exit_Errors_Complete]: ![[12]
; 0264 3 BEGIN ![[12]
; 0265 3 $CRD_Print (CRD$GT_CRD_Errors_Complete, .CRD$GT_Which_CRD); ![[12]
; 0266 2 END;
; 0267 2
; 0268 2 [MENU$K_Exit_Operator_Stop]: ![[11]
; 0269 3 BEGIN
; 0270 3 $CRD_Print (MEN$GT_Operator_Stop); ![[12]
; 0271 2 END;
; 0272 2
; 0273 2 [MENU$K_Exit_Operator_Abort]: ![[11]
; 0274 3 BEGIN ![[11]
; 0275 3 !
; 0276 3 ! Take these out for now - add them back later sometime - when I clear up the Complete bit in the
; 0277 3 ! DDB status - problem is that a ^C during testing, and exit to VDS produces MENU TEST COMPLETE
; 0278 3 ! rather than INCOMPLETE.
; 0279 3 ! IF (.MEN$GB_Test_In_Progress) ![[11]
; 0280 3 ! THEN ![[11]

```

```

: 0281 3 !      MEN$FncTst_CmplErr_Status ();      ![[11]]
: 0282 3 !-
: 0283 3
: 0284 3      $CRD_Print (MEN$GT_Operator_Abort);      ![[12]]
: 0285 2      END;      ![[1]]
: 0286 2
: 0287 2      [AUTOSK_Exit_NoErrors_Incomplete]:      ![[11]]
: 0288 3      BEGIN
: 0289 3      $CRD_Print (CRD$GT_CRD_Incomplete, .CRD$GT_Which_CRD);      ![[03]]
: 0290 2      END;
: 0291 2
: 0292 2      [AUTOSK_Exit_NoErrors_Prep]:      ![[11]]
: 0293 3      BEGIN
: 0294 3      $CRD_Print (CRD$GT_CRD_Dev_UnTested, .CRD$GT_Which_CRD);      ![[03]]
: 0295 2      END;
: 0296 2
: 0297 2      [AUTOSK_Exit_Errors_Incomplete]:      ![[11]]
: 0298 3      BEGIN
: 0299 3      MAP
: 0300 3      CRD$GA_First_Diagnostic : REF Device_Data_Block_Structure;
: 0301 3
: 0302 3      LOCAL
: 0303 3      Char_Ptr,
: 0304 3      Numb_Bad_Devices;
: 0305 3
: 0306 3      REGISTER
: 0307 3      DDB_Ptr : REF Device_Data_Block_Structure;
: 0308 3
: 0309 3      !+
: 0310 3      ! Accumulate a list of bad device names in the message buffer.
: 0311 3      !-
: 0312 3
: 0313 3      Char_Ptr = CH$PTR (CRD$GA_CRD_Message_Buffer + 1);
: 0314 3      Numb_Bad_Devices = 0;
: 0315 3      DDB_Ptr = .CRD$GA_First_Diagnostic;
: 0316 3
: 0317 3      DO
: 0318 4      BEGIN
: 0319 4      IF (.DDB_Ptr [CRD$K_DDB_Status] < DDB$V_Status_Device_Bad) THEN      ![[11]]
: 0320 5      BEGIN
: 0321 5      BIND
: 0322 6      Diag_Vector_Ptr = (.DDB_Ptr [CRD$K_DDB_Auto_Support_Entry])
: 0323 5      : Hardware_Support_Vector;
: 0324 5
: 0325 5      BIND
: 0326 6      Device_Name = (.Diag_Vector_Ptr [CRD$K_Device_Name])
: 0327 5      : VECTOR [, BYTE];
: 0328 5
: 0329 5      Numb_Bad_Devices = .Numb_Bad_Devices + 1;
: 0330 5
: 0331 5      !+
: 0332 5      ! If necessary, move in a      AND '.
: 0333 5      !-
: 0334 5
: 0335 5      IF (.Numb_Bad_Devices GTR 1) THEN
  
```

```

0336 6 BEGIN
0337 6 MAP
0338 6 CRD$GT_Space_AND_Space : VECTOR [, BYTE];
0339 6
0340 6 CH$MOVE (
0341 6 .CRD$GT_Space_AND_Space [0],
0342 6 CH$PTR (CRD$GT_Space_AND_Space [1]),
0343 6 .Char_Ptr
0344 6 );
0345 6 Char_Ptr = CH$PLUS (.Char_Ptr, .CRD$GT_Space_AND_Space [0]);
0346 5 END;
0347 5
0348 5 !+
0349 5 ! Move in the actual device name.
0350 5 !-
0351 5
0352 5 CH$MOVE (
0353 5 .Device_Name [0],
0354 5 CH$PTR (Device_Name [1]),
0355 5 .Char_Ptr
0356 5 );
0357 5 Char_Ptr = CH$PLUS (.Char_Ptr, .Device_Name [0]);
0358 4 END;
0359 4
0360 4 DDB_Ptr = .DDB_Ptr [CRD$K_DDB_FLink];
0361 4 ! Advance to the next device.
0362 4 END
0363 3 UNTIL (.DDB_Ptr EQL .CRD$GA_First_Diagnostic);
0364 3
0365 3 CRD$GA_CRD_Message_Buffer [0]
0366 3 = CH$DIFF (.Char_Ptr, CH$PTR (CRD$GA_CRD_Message_Buffer + 1));
0367 3
0368 3 $CRD_Print (CRD$GT_CRD_Bad_Device, .CRD$GT_Which_CRD, CRD$GA_CRD_Message_Buffer); ![03]
0369 2 END;
0370 2
0371 2 [AUTO$K_Exit_AutoSizer_Error, ![11]
0372 2 MENU$K_Exit_AutoSizer_Error]: ![11]
0373 3 BEGIN
0374 3 IF (.DSA$V_CRD_Menutest_Off) THEN
0375 4 $CRD_Print (CRD$GT_CRD_EVSBA_Error, .CRD$GT_Which_CRD) ![03]
0376 3 ELSE
0377 3 $CRD_Print (CRD$GT_CRD_EVSB_B_Error, .CRD$GT_Which_CRD); ![03]
0378 2 END;
0379 2 [AUTO$K_Exit_Inv_Base_System]: ! [17]
0380 3 BEGIN
0381 3 $CRD_Print (CRD$GT_Inv_Base_System);
0382 3 $CRD_Print (CRD$GT_CRD_Fatal_Error, .CRD$GT_Which_CRD);
0383 2 END;
0384 2 TES;
0385 2
0386 3 IF ((.DSA$V_CRD_AutoTest_Off) AND
0387 4 ((.Stop_Reason EQL AUTO$K_Exit_NoErrors_Complete) OR
0388 4 (.Stop_Reason EQL AUTO$K_Exit_Errors_Complete) OR
0389 4 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Incomplete) OR
0390 4 (.Stop_Reason EQL AUTO$K_Exit_Errors_Incomplete) OR
  
```

```
; 0391 5  (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Prep)
; 0392 4  )
; 0393 3  )
; 0394 2  THEN
; 0395 2  CRD$Auto_Summary (); ! Get an Auto Test summary  !![17]
; 0396 2  ! only when exiting under specific circumstances
; 0397 2
; 0398 2  $CRD_Print (CRD$GT_CRD_End_Message, .CRD$GT_Which_CRD);  !![12]
; 0399 2
; 0400 4  IF (NOT (  !![14]
; 0401 4  (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Complete) OR  !![14]
; 0402 4  (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Incomplete) OR  !![14]
; 0403 5  (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Prep)  !![14]
; 0404 2  )) THEN  !![14]
; 0405 2  Print_Exit_To ();  !![12]
; 0406 2
; 0407 2  IF (.DSA$V_CRD_AutoTest_Off) THEN  !![16]
; 0408 3  BEGIN  !![04]
; 0409 3  REGISTER  !![04]
; 0410 3  Next_Ptr,  !![14]
; 0411 3  DDB_Ptr : REF Device_Data_Block_Structure;  !![04]
; 0412 3
; 0413 3  !+  !![04]
; 0414 3  ! Deallocate all of the Device Data Blocks if DDB database exists.
; 0415 3  ! Use the CRD$Dispose routine to do this.  !![04]
; 0416 3  !-  !![04]
; 0417 3
; 0418 3  IF (DDB_Ptr = .CRD$GA_First_Diagnostic) NEQ 0  ! [17]
; 0419 3  THEN
; 0420 4  BEGIN
; 0421 4  DO  !![04]
; 0422 5  BEGIN  !![04]
; 0423 5  LOCAL  !![04]
; 0424 5  Size : BYTE;  !![14]
; 0425 5  ! To store the size of the DDB  !![04]
; 0426 5
; 0427 5  Size = .DDB_Ptr [CRD$K_DDB_Status] <DDB$B_Status_DDB_Size>;  !![06]
; 0428 5  ! Get the actual size which is stored in the DDB  !![04]
; 0429 5
; 0430 5  CRD$Print_DDB (.DDB_Ptr);
; 0431 5
; 0432 5  Next_Ptr = .DDB_Ptr [CRD$K_DDB_FLink];  !![14]
; 0433 5
; 0434 5  CRD$Dispose (.Size, .DDB_Ptr);  !![04]
; 0435 5  ! Dispose of the block of memory  !![04]
; 0436 5
; 0437 5  DDB_Ptr = .Next_Ptr;  !![14]
; 0438 5  ! Advance to the next DDB  !![04]
; 0439 5  END  !![04]
; 0440 4  UNTIL (.DDB_Ptr EQL .CRD$GA_First_Diagnostic);  !![04]
; 0441 3  END;
; 0442 3  END  !![07]
; 0443 2  ELSE IF (.DSA$V_CRD_MenuTest_Off) THEN  ! [16]
; 0444 3  BEGIN
; 0445 3  MEN$Menu_Cleanup ();  !![07]
```

```

: 0446 3 END [[11]]
: 0447 2 ELSE IF (.DSA$V_CRD_MenuTest_On) THEN ! [19]
: 0448 3 BEGIN ! [19]
: 0449 3 MEN$Menu_Cleanup (); ! [19]
: 0450 3 END ! [19]
: 0451 2 ELSE [[11]]
P 0452 2 $CRD_Print ($ASCIC (
P 0453 2 '!/CRD INTERNAL ERROR - CRD$Stop - ', [[15]
: 0454 2 'None of the CRD DSA bits are set. DSA=!XL hex!/' ), .DSA$GL_Flags); [[15]
: 0455 2
: 0456 2 !+
: 0457 2 ! MENU TEST definitely occurs after this point if stop_reason
: 0458 2 ! was _NoErrors_. BUT WHAT ABOUT _Errors_ ??
: 0459 2 !-
: 0460 3 IF ((.DSA$V_CRD_AutoTest_Off) AND
: 0461 4 ((.Stop_Reason EQL AUTO$K_Exit_NoErrors_Complete) OR
: 0462 4 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Incomplete) OR
: 0463 5 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Prep)
: 0464 4 )
: 0465 3 )
: 0466 2 THEN
: 0467 2 CRD$Screen_Pause (SCREEN$K_Press_Return_MM); ! Tell soft console operator to [[17]
: 0468 2 ! Press Return for MAIN MENU...
: 0469 2 ! before continuing with Menu Test mode.
: 0470 2
: 0471 2 !+
: 0472 2 ! Finally, call (indirectly) the DSV$Exit routine. This will either exit to console mode
: 0473 2 ! (in stand-alone), or to VMS DCL (in user mode). This must be done LAST here because
: 0474 2 ! all the dispatch vectors are overwritten with debugging information. So, no $CRD_Print's
: 0475 2 ! can be done after this is done, etc.
: 0476 2 !-
: 0477 2
: 0478 4 IF (NOT ( [[14]
: 0479 4 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Complete) OR [[14]
: 0480 4 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Incomplete) OR [[14]
: 0481 5 (.Stop_Reason EQL AUTO$K_Exit_NoErrors_Prep) [[14]
: 0482 2 )) THEN [[14]
: 0483 3 BEGIN
: 0484 3 LOCAL
: 0485 3 Exit_Address;
: 0486 3
: 0487 3 Exit_Address = .CRD$Exit_DS;
: 0488 3 ! Save this so that we can exit after the transfer
: 0489 3
P 0490 3 CRD_Assert ((CRD$K_Total_Numb_Vectors EQL [[15]
P 0491 3 (CRD$K_Numb_UnUsed_Vectors + CRD$K_Numb_Dispatch_Vectors)), [[15]
: 0492 3 'Check the values of these constants in the CRD.R32 library'); [[15]
: 0493 3
: 0494 3 !+
: 0495 3 ! Now transfer the debug vectors to the CRD's dispatch area. The DSR$UnLoad_CRD routine [[15]
: 0496 3 ! will print out these vectors if an internal error has occurred. Note that [[15]
: 0497 3 ! CRD_Dispatch_Vectors is actually mapped to the start of the actual vectors, not including [[15]
: 0498 3 ! the version stuff in the first longword. [[15]
: 0499 3 !-

```

```

: 0500 3
: 0501 3 INCR Vector FROM 0 TO (CRD$K_Total_Numb_Vectors - 1) DO      ![[15]
: 0502 4 BEGIN
: 0503 4 CRD_Dispatch_Vectors [.Vector] = .CRD$GL_CRD_Debug_Vector [.Vector];
: 0504 3 END;
: 0505 3
: 0506 3 Jsb_None (.Exit_Address);
: 0507 3 ! JSB to the DSV$Exit routine
: 0508 2 END;
: 0509 2
: 0510 2 !+
: 0511 2 ! Continue on here if Auto Test is to go to Menu Test (automatically).      ![[14]
: 0512 2 !-
: 0513 2
: 0514 2 DSA$V_CRD_AutoTest_Off = Off;          ![[16]
: 0515 2 DSA$V_CRD_MenuTest_Off = On;          ![[16]
: 0516 2 DSA$V_CRD_MenuTest_On = Off;          ![[16]
: 0517 2 DSA$V_Binary = On;                    ![[14]
: 0518 2 CRD$GB_Auto_To_Menu_Off = True; ! Indicate that Menu is invoked
: 0519 2 ! from completion of Auto.          [16]
: 0520 2
: 0521 2 CRD$DS_Interface (CRD$K_Hook_Point, CRD$K_CRD_Initialization, 0, 0);      ![[14]
: 0522 2
: 0523 2 JSB_Begin (.CRD$GA_Begin);            ![[14]
: 0524 1 END; ! Routine CRD$Stop
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

4C 41 4E 52 45 54 4E 49 20 44 52 43 2F 21 51 00008 P.AAB: .ASCII \Q!/CRD INTERNAL ERROR - CRD$Stop - None \ ;
74 53 24 44 52 43 20 2D 20 52 4F 52 52 45 20 00017 ;
    20 65 6E 6F 4E 20 2D 20 70 6F 00026 ;
20 41 53 44 20 44 52 43 20 65 68 74 20 66 6F 00030 .ASCII \of the CRD DSA bits are set. DSA=!XL hex\ ;
44 20 2E 74 65 73 20 65 72 61 20 73 74 69 62 0003F ;
    78 65 68 20 4C 58 21 3D 41 53 0004E ;
    2F 21 00058 .ASCII \!/\ ;
  
```

```

.EXTRN CRD$DISABLE_CTRL_C
.EXTRN CRD$CLEAR_CTRL_C_FLAG
.EXTRN MEN$GT_SUPPORT_FILE_NOT_FOUND
.EXTRN MEN$GT_MENFUNCSUP_FILE
.EXTRN MEN$GT_SUPPORT_FILE_LOAD_ERR
.EXTRN CRD$GT_CONTROL_C_ABORT
.EXTRN CRD$GT_WHICH_CRD
.EXTRN CRD$GT_INTERNAL_ERROR
.EXTRN CRD$GT_INTERNAL_ERROR_ABORT
.EXTRN CRD$GT_CRD_NO_ERRORS
.EXTRN CRD$GT_CRD_ERRORS_COMPLETE
.EXTRN MEN$GT_OPERATOR_STOP
.EXTRN MEN$GT_OPERATOR_ABORT
.EXTRN CRD$GT_CRD_INCOMPLETE
.EXTRN CRD$GT_CRD_DEV_UNTESTED
.EXTRN CRD$GA_FIRST_DIAGNOSTIC
.EXTRN CRD$GA_CRD_MESSAGE_BUFFER
  
```



```

.EXTRN CRD$GT_SPACE_AND_SPACE
.EXTRN CRD$GT_CRD_BAD_DEVICE
.EXTRN CRD$GT_CRD_EVSBA_ERROR
.EXTRN CRD$GT_CRD_EVSBB_ERROR
.EXTRN CRD$GT_INV_BASE_SYSTEM
.EXTRN CRD$GT_CRD_FATAL_ERROR
.EXTRN CRD$GT_CRD_END_MESSAGE
.EXTRN CRD$PRINT_DDB, CRD$DISPOSE
.EXTRN MEN$MENU_CLEANUP
.EXTRN CRD$EXIT_DS, CRD$DS_INTERFACE
.EXTRN CRD$GA_BEGIN
  
```

.PSECT CODE, NOWRT, SHR, PIC, 2

```

      OFFC 00000 .ENTRY CRD$STOP, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; 0184
R11
00000000G EF 16 00002 JSB CRD$DISABLE_CTRL_C ; 0230
00000000G EF 16 00008 JSB CRD$CLEAR_CTRL_C_FLAG ; 0231
      59 04 AC D0 0000E MOVL STOP_REASON, R9 ; 0234
      0F 59 D1 00012 CMPL R9, #15 ; 0236
      0F 12 00015 BNEQ 1$ ;
00000000G EF 9F 00017 PUSHAB MEN$GT_MENFUNCSUP_FILE ; 0238
00000000G EF 9F 0001D PUSHAB MEN$GT_SUPPORT_FILE_NOT_FOUND ;
      01A9 31 00023 BRW 21$ ;
      10 59 D1 00026 1$: CMPL R9, #16 ; 0241
      0F 12 00029 BNEQ 2$ ;
00000000G EF 9F 0002B PUSHAB MEN$GT_MENFUNCSUP_FILE ; 0243
00000000G EF 9F 00031 PUSHAB MEN$GT_SUPPORT_FILE_LOAD_ERR ;
      0195 31 00037 BRW 21$ ;
      59 D5 0003A 2$: TSTL R9 ; 0246
      0F 12 0003C BNEQ 3$ ;
00000000G EF DD 0003E PUSHL CRD$GT_WHICH_CRD ; 0248
00000000G EF 9F 00044 PUSHAB CRD$GT_CONTROL_C_ABORT ;
      0182 31 0004A BRW 21$ ;
      01 59 D1 0004D 3$: CMPL R9, #1 ; 0251
      05 13 00050 BEQL 4$ ;
      0D 59 D1 00052 CMPL R9, #13 ;
      26 12 00055 BNEQ 5$ ;
00000000G EF DD 00057 4$: PUSHL CRD$GT_WHICH_CRD ; 0254
00000000G EF 9F 0005D PUSHAB CRD$GT_INTERNAL_ERROR ;
      01 DD 00063 PUSHL #1 ;
      1A DD 00065 PUSHL #26 ;
00000000G FF 04 FB 00067 CALLS #4, @CRD$PRINT ;
00000000G EF DD 0006E PUSHL CRD$GT_WHICH_CRD ; 0255
00000000G EF 9F 00074 PUSHAB CRD$GT_INTERNAL_ERROR_ABORT ;
      0152 31 0007A BRW 21$ ;
      05 59 D1 0007D 5$: CMPL R9, #5 ; 0258
      0F 12 00080 BNEQ 6$ ;
00000000G EF DD 00082 PUSHL CRD$GT_WHICH_CRD ; 0260
00000000G EF 9F 00088 PUSHAB CRD$GT_CRD_NO_ERRORS ;
      013E 31 0008E BRW 21$ ;
      03 59 D1 00091 6$: CMPL R9, #3 ; 0263
      0F 12 00094 BNEQ 7$ ;
00000000G EF DD 00096 PUSHL CRD$GT_WHICH_CRD ; 0265
00000000G EF 9F 0009C PUSHAB CRD$GT_CRD_ERRORS_COMPLETE ;
  
```

```

012A 31 000A2 BRW 21$ ;
0B 59 D1 000A5 7$: CMPL R9, #11 ; 0268
08 12 000A8 BNEQ 8$ ;
00000000G EF 9F 000AA PUSHAB MEN$GT_OPERATOR_STOP ; 0270
0B 11 000B0 BRB 9$ ;
0C 59 D1 000B2 8$: CMPL R9, #12 ; 0273
14 12 000B5 BNEQ 10$ ;
00000000G EF 9F 000B7 PUSHAB MEN$GT_OPERATOR_ABORT ; 0284
01 DD 000BD 9$: PUSHL #1 ;
1A DD 000BF PUSHL #26 ;
00000000G FF 03 FB 000C1 CALLS #3, @CRD$PRINT ;
010F 31 000C8 BRW 22$ ; 0234
06 59 D1 000CB 10$: CMPL R9, #6 ; 0287
0F 12 000CE BNEQ 11$ ;
00000000G EF DD 000D0 PUSHL CRD$GT_WHICH_CRD ; 0289
00000000G EF 9F 000D6 PUSHAB CRD$GT_CRD_INCOMPLETE ;
00F0 31 000DC BRW 21$ ;
07 59 D1 000DF 11$: CMPL R9, #7 ; 0292
0F 12 000E2 BNEQ 12$ ;
00000000G EF DD 000E4 PUSHL CRD$GT_WHICH_CRD ; 0294
00000000G EF 9F 000EA PUSHAB CRD$GT_CRD_DEV_UNTESTED ;
00DC 31 000F0 BRW 21$ ;
04 59 D1 000F3 12$: CMPL R9, #4 ; 0297
03 13 000F6 BEQL 13$ ;
0085 31 000F8 BRW 17$ ;
58 00000000G EF 9E 000FB 13$: MOVAB CRD$GA_CRD_MESSAGE_BUFFER+1, CHAR_PTR ; 0313
5A D4 00102 CLRL NUMB_BAD_DEVICES ; 0314
56 00000000G EF D0 00104 MOVL CRD$GA_FIRST_DIAGNOSTIC, DDB_PTR ; 0315
36 14 A6 04 E1 0010B 14$: BBC #4, 20(DDB_PTR), 16$ ; 0319
50 0C A6 D0 00110 MOVL 12(DDB_PTR), R0 ; 0322
57 0C A0 D0 00114 MOVL 12(R0), R7 ; 0326
5A D6 00118 INCL NUMB_BAD_DEVICES ; 0329
01 5A D1 0011A CMPL NUMB_BAD_DEVICES, #1 ; 0335
19 15 0011D BLEQ 15$ ;
50 00000000G EF 9A 0011F MOVZBL CRD$GT_SPACE_AND_SPACE, R0 ; 0341
68 00000000G EF 50 28 00126 MOVC3 R0, CRD$GT_SPACE_AND_SPACE+1, (CHAR_PTR) ; 0343
50 00000000G EF 9A 0012E MOVZBL CRD$GT_SPACE_AND_SPACE, R0 ; 0345
58 50 C0 00135 ADDL2 R0, CHAR_PTR ;
50 67 9A 00138 15$: MOVZBL (R7), R0 ; 0353
68 01 A7 50 28 0013B MOVC3 R0, 1(R7), (CHAR_PTR) ; 0355
50 67 9A 00140 MOVZBL (R7), R0 ; 0357
58 50 C0 00143 ADDL2 R0, CHAR_PTR ;
56 66 D0 00146 16$: MOVL (DDB_PTR), DDB_PTR ; 0360
00000000G EF 56 D1 00149 CMPL DDB_PTR, CRD$GA_FIRST_DIAGNOSTIC ; 0363
B9 12 00150 BNEQ 14$ ;
50 00000000G EF 9E 00152 MOVAB CRD$GA_CRD_MESSAGE_BUFFER+1, R0 ; 0366
00000000G EF 58 50 83 00159 SUBB3 R0, CHAR_PTR, CRD$GA_CRD_MESSAGE_BUFFER ;
00000000G EF 9F 00161 PUSHAB CRD$GA_CRD_MESSAGE_BUFFER ; 0368
00000000G EF DD 00167 PUSHL CRD$GT_WHICH_CRD ;
00000000G EF 9F 0016D PUSHAB CRD$GT_CRD_BAD_DEVICE ;
01 DD 00173 PUSHL #1 ;
1A DD 00175 PUSHL #26 ;
00000000G FF 05 FB 00177 CALLS #5, @CRD$PRINT ;
5A 11 0017E BRB 22$ ; 0234
02 59 D1 00180 17$: CMPL R9, #2 ; 0371

```

```

05 13 00183 BEQL 18$ ;
0E 59 D1 00185 CMPL R9, #14 ;
23 12 00188 BNEQ 20$ ;
0E 0000FE02 9F E9 0018A 18$: BLBC a#X0000FE02, 19$ ; 0374
00000000G EF DD 00191 PUSHL CRD$GT_WHICH_CRD ; 0375
00000000G EF 9F 00197 PUSHAB CRD$GT_CRD_EVSBA_ERROR ;
30 11 0019D BRB 21$ ;
00000000G EF DD 0019F 19$: PUSHL CRD$GT_WHICH_CRD ; 0377
00000000G EF 9F 001A5 PUSHAB CRD$GT_CRD_EVSBB_ERROR ;
22 11 001AB BRB 21$ ;
08 59 D1 001AD 20$: CMPL R9, #8 ; 0379
28 12 001B0 BNEQ 22$ ;
00000000G EF 9F 001B2 PUSHAB CRD$GT_INV_BASE_SYSTEM ; 0381
01 DD 001B8 PUSHL #1 ;
1A DD 001BA PUSHL #26 ;
00000000G FF 03 FB 001BC CALLS #3, aCRD$PRINT ;
00000000G EF DD 001C3 PUSHL CRD$GT_WHICH_CRD ; 0382
00000000G EF 9F 001C9 PUSHAB CRD$GT_CRD_FATAL_ERROR ;
01 DD 001CF 21$: PUSHL #1 ;
1A DD 001D1 PUSHL #26 ;
00000000G FF 04 FB 001D3 CALLS #4, aCRD$PRINT ;
57 0000FE01 9F 01 03 EF 001DA 22$: EXTZV #3, #1, a#X0000FE01, R7 ; 0386
20 57 E9 001E3 BLBC R7, 24$ ;
05 59 D1 001E6 CMPL R9, #5 ; 0387
14 13 001E9 BEQL 23$ ;
03 59 D1 001EB CMPL R9, #3 ; 0388
0F 13 001EE BEQL 23$ ;
06 59 D1 001F0 CMPL R9, #6 ; 0389
0A 13 001F3 BEQL 23$ ;
04 59 D1 001F5 CMPL R9, #4 ; 0390
05 13 001F8 BEQL 23$ ;
07 59 D1 001FA CMPL R9, #7 ; 0391
07 12 001FD BNEQ 24$ ;
00000000V EF 00 FB 001FF 23$: CALLS #0, CRD$AUTO_SUMMARY ; 0395
00000000G EF DD 00206 24$: PUSHL CRD$GT_WHICH_CRD ; 0398
00000000G EF 9F 0020C PUSHAB CRD$GT_CRD_END_MESSAGE ;
01 DD 00212 PUSHL #1 ;
1A DD 00214 PUSHL #26 ;
00000000G FF 04 FB 00216 CALLS #4, aCRD$PRINT ;
56 D4 0021D CLRL R6 ; 0401
05 59 D1 0021F CMPL R9, #5 ;
02 12 00222 BNEQ 25$ ;
56 D6 00224 INCL R6 ;
50 D4 00226 25$: CLRL R0 ; 0402
06 59 D1 00228 CMPL R9, #6 ;
02 12 0022B BNEQ 26$ ;
50 D6 0022D INCL R0 ;
50 56 C8 0022F 26$: BISL2 R6, R0 ;
55 D4 00232 CLRL R5 ; 0403
07 59 D1 00234 CMPL R9, #7 ;
02 12 00237 BNEQ 27$ ;
55 D6 00239 INCL R5 ;
55 50 C8 0023B 27$: BISL2 R0, R5 ;
05 55 E8 0023E BLBS R5, 28$ ; 0400
FD7A CF 00 FB 00241 CALLS #0, PRINT_EXIT_TO ; 0405

```

```

33      57 E9 00246 28$: BLBC R7, 30$ ; 0407
53 00000000G EF D0 00249 MOVL CRD$GA_FIRST_DIAGNOSTIC, DDB_PTR ; 0418
59 13 00250 BEQL 33$ ;
54 17 A3 90 00252 29$: MOVBL 23(DDB_PTR), SIZE ; 0427
53 DD 00256 PUSHL DDB_PTR ; 0430
00000000G EF 01 FB 00258 CALLS #1, CRD$PRINT_DDB ;
52 63 D0 0025F MOVL (DDB_PTR), NEXT_PTR ; 0432
53 DD 00262 PUSHL DDB_PTR ; 0434
7E 54 9A 00264 MOVZBL SIZE, -(SP) ;
00000000G EF 02 FB 00267 CALLS #2, CRD$DISPOSE ;
53 52 D0 0026E MOVL NEXT_PTR, DDB_PTR ; 0437
00000000G EF 53 D1 00271 CMPL DDB_PTR, CRD$GA_FIRST_DIAGNOSTIC ; 0440
D8 12 00278 BNEQ 29$ ;
2F 11 0027A BRB 33$ ; 0407
08 0000FE02 9F E8 0027C 30$: BLBS a#^X0000FE02, 31$ ; 0443
09 0000FE02 9F 02 E1 00283 BBC #2, a#^X0000FE02, 32$ ; 0447
00000000G EF 00 FB 0028B 31$: CALLS #0, MEN$MENU_CLEANUP ; 0449
17 11 00292 BRB 33$ ; 0447
0000FE00 9F DD 00294 32$: PUSHL a#^X0000FE00 ; 0454
00000000' EF 9F 0029A PUSHAB P.AAB ;
01 DD 002A0 PUSHL #1 ;
1A DD 002A2 PUSHL #26 ;
00000000G FF 04 FB 002A4 CALLS #4, aCRD$PRINT ;
16 57 E9 002AB 33$: BLBC R7, 35$ ; 0460
0A 56 E8 002AE BLBS R6, 34$ ; 0461
06 59 D1 002B1 CMPL R9, #6 ; 0462
05 13 002B4 BEQL 34$ ;
07 59 D1 002B6 CMPL R9, #7 ; 0463
09 12 002B9 BNEQ 35$ ;
03 DD 002BB 34$: PUSHL #3 ; 0467
00000000V EF 01 FB 002BD CALLS #1, CRD$SCREEN_PAUSE ;
1C 55 E8 002C4 35$: BLBS R5, 37$ ; 0478
51 00000000G EF D0 002C7 MOVL CRD$EXIT_DS, EXIT_ADDRESS ; 0487
50 D4 002CE CLRL VECTOR ; 0501
00000000GEF40 00000000'EF40 D0 002D0 36$: MOVL CRD$GL_CRD_DEBUG_VECTOR[VECTOR], - ; 0503
CRD_DISPATCH_VECTORS[VECTOR] ;
EF 50 18 F3 002DD AOBLEQ #24, VECTOR, 36$ ; 0501
61 16 002E1 JSB (EXIT_ADDRESS) ; 0506
0000FE01 9F 08 8A 002E3 37$: BICB2 #8, a#^X0000FE01 ; 0514
0000FE02 9F 01 88 002EA BICB2 #1, a#^X0000FE02 ; 0515
0000FE02 9F 04 8A 002F1 BICB2 #4, a#^X0000FE02 ; 0516
0000FE00 9F 02 88 002F8 BICB2 #2, a#^X0000FE00 ; 0517
00000000' EF 01 90 002FF MOVBL #1, CRD$GB_AUTO_TO_MENU_OFF ; 0518
7E 7C 00306 CLRQ -(SP) ; 0521
7E 7C 00308 CLRQ -(SP) ;
00000000G EF 04 FB 0030A CALLS #4, CRD$DS_INTERFACE ;
00000000G FF 16 00311 JSB aCRD$GA_BEGIN ; 0523
04 00317 RET ; 0524

```

; Routine Size: 792 bytes, Routine Base: CODE + 0040

```

; 0525 1 xSBTTL 'CRD$Control_C_Handler Routine'
; 0526 1
; 0527 1 GLOBAL ROUTINE CRD$Control_C_Handler : NOVALUE =
; 0528 1
; 0529 1 !**
; 0530 1 ! Functional Description:
; 0531 1 !
; 0532 1 ! Handle Control-C's during CRD.
; 0533 1 !
; 0534 1 ! Formal Input Parameters:
; 0535 1 !
; 0536 1 ! None
; 0537 1 !
; 0538 1 ! Formal Output Parameters:
; 0539 1 !
; 0540 1 ! None
; 0541 1 !
; 0542 1 ! Side Effects:
; 0543 1 !
; 0544 1 ! None
; 0545 1 !
; 0546 1 ! Completion Codes:
; 0547 1 !
; 0548 1 ! None
; 0549 1 ! -
; 0550 2 BEGIN ! Routine CRD$Control_C_Handler
; 0551 2 CRD$Disable_Ctrl_C (); ![[12]]
; 0552 2 CRD$Clear_Ctrl_C_Flag (); ![[12]]
; 0553 2
; 0554 2 CRD$Stop (AUTO$K_Exit_Control_C); ![[11]]
; 0555 2 ! Call Stop because of the Control-C
; 0556 1 END; ! Routine CRD$Control_C_Handler

```

```

      OFFC 00000 .ENTRY CRD$CONTROL_C_HANDLER, Save R2,R3,R4,R5,R6,-; 0527
      R7,R8,R9,R10,R11
00000000G EF 16 00002 JSB CRD$DISABLE_CTRL_C ; 0551
00000000G EF 16 00008 JSB CRD$CLEAR_CTRL_C_FLAG ; 0552
      7E D4 0000E CLRL -(SP) ; 0554
FCD3 CF 01 FB 00010 CALLS #1, CRD$STOP ;
      04 00015 RET ; 0556

```

; Routine Size: 22 bytes, Routine Base: CODE + 0358

```

; 0557 1
; 0558 1

```

```

: 0559 1 xSBTTL 'CRD$Auto_Summary Routine'
: 0560 1
: 0561 1 GLOBAL ROUTINE CRD$Auto_Summary : NOVALUE =
: 0562 1
: 0563 1 !**
: 0564 1 ! Functional Description:
: 0565 1
: 0566 1 ! Prints a summary of devices tested and their status after the auto test
: 0567 1 ! only for soft consoles. Otherwise, just return.
: 0568 1
: 0569 1 ! Formal Input Parameters:
: 0570 1
: 0571 1 ! None
: 0572 1
: 0573 1 ! Formal Output Parameters:
: 0574 1
: 0575 1 ! None
: 0576 1
: 0577 1 ! Side Effects:
: 0578 1
: 0579 1 ! None
: 0580 1
: 0581 1 ! Completion Codes:
: 0582 1
: 0583 1 ! None
: 0584 1 !--
: 0585 2 BEGIN ! Routine CRD$Auto_Summary
: 0586 2 LOCAL
: 0587 2 Some_Fail: INITIAL (False),
: 0588 2 ! CPU and MEMORY always pass in microdiagnostics before Auto Summary
: 0589 2 ! Some_Pass: INITIAL (False),
: 0590 2 Some_Inc_Prep: INITIAL (False),
: 0591 2 Some_Other: INITIAL (False),
: 0592 2 Console_Char : $CRD_Termchar_ATTR;
: 0593 2
: 0594 2 REGISTER
: 0595 2 Hdw_ Name_Ptr,
: 0596 2 Dev_Name,
: 0597 2 Screen_Counter,
: 0598 2 DDB_Ptr : REF Device_Data_Block_Structure,
: 0599 2 SupBik_Ptr : REF $MEN_SupBik_ATTR,
: 0600 2 PTable_Ptr : REF $DS_HPO_DECL ();
: 0601 2
: 0602 2 MAP
: 0603 2 CRD$GA_First_Diagnostic : REF Device_Data_Block_Structure;
: 0604 2
: 0605 2
: 0606 2 !*
: 0607 2 ! BEFORE DOING ANYTHING, CHECK THAT THE CONSOLE IS SOFT (i.e. VT100 or VT52)
: 0608 2 ! AND NOT HARD (i.e. LA34 etc.)
: 0609 2 !-
: 0610 3 IF ($DS_GETTERM (TERMCHAR = Console_Char))
: 0611 3 ! If SS$_NORMAL status on getting
: 0612 3 ! terminal characteristics
: 0613 2 THEN
  
```

```

: 0614 3 BEGIN
: 0615 3 !+
: 0616 3 ! If console is not a CRD supported soft console, then just RETURN.
: 0617 3 ! Otherwise, continue normally.
: 0618 3 !-
: 0619 4 IF ((.Console_Char [Termchar$B_Type] NEQ TT$_VT100) AND
: 0620 4 !*** (.Console_Char [Termchar$B_Type] NEQ TT$_VS125) AND
: 0621 4 (.Console_Char [Termchar$B_Type] NEQ TT$_VT52) AND
: 0622 5 (.Console_Char [Termchar$B_Type] NEQ TT$_VT200_Series)
: 0623 4 )
: 0624 3 THEN
: 0625 3 RETURN;
: 0626 3 END
: 0627 2 ELSE
: 0628 2 $CRD_Print (CRD$GT_Internal_Error);
: 0629 2
: 0630 2
: 0631 2 !+
: 0632 2 ! Print the Auto Test Summary Title
: 0633 2 !-
: 0634 2
: 0635 2 $CRD_Print (CRD$GT_Summary_Title);
: 0636 2
: 0637 2
: 0638 2 INCR I FROM 0 TO 4 DO
: 0639 3 BEGIN ! Begin of INCR I
: 0640 3 !+
: 0641 3 ! Print the Subtitle of the Auto Test Summary
: 0642 3 !-
: 0643 3 SELECTONE .I OF
: 0644 3 SET
: 0645 3 [1]: IF (.Some_Fail) THEN $CRD_Print (CRD$GT_All_Failures);
: 0646 3
: 0647 3 ! CPU and MEMORY always pass in microdiagnostics to get to this stage
: 0648 3 [2]: $CRD_Print (CRD$GT_All_Passes);
: 0649 3
: 0650 3 [3]: IF (.Some_Inc_Prep) THEN $CRD_Print (CRD$GT_All_Inc_Hdwr_Prep);
: 0651 3 [4]: IF (.Some_Other) THEN $CRD_Print (CRD$GT_All_Others);
: 0652 3 TES;
: 0653 3
: 0654 3 DDB_Ptr = .CRD$GA_First_Diagnostic;
: 0655 3 . Set DDB_Ptr to point to the first DDB
: 0656 3
: 0657 3 Screen_Counter = 0; ! Init number of entries actually on
: 0658 3 ! 1 line of the screen. Max number is 3
: 0659 3
: 0660 3 !+
: 0661 3 ! CPU and MEMORY always pass in microdiagnostics to get to this stage
: 0662 3 !-
: 0663 4 IF (.I EQL 2)
: 0664 3 THEN
: 0665 4 BEGIN
: 0666 4 $CRD_Print (CRD$GT_Init_All_Passes);
: 0667 4 Screen_Counter = 2;
: 0668 3 END;

```

```

0669 3
0670 3 !+
0671 3 ! The following DO-UNTIL acts on each DDB in the DDBs-queue.
0672 3 !-
0673 3
0674 3 DO
0675 3
0676 3 !+
0677 3 ! This is a large DO in the DO_UNTIL command.
0678 3 !-
0679 4 BEGIN ! Begin of DO command.
0680 4
0681 4 !+
0682 4 ! For this DDB:
0683 4 ! 1st: determine whether device test failed, passed or was inc prep hdwr
0684 4 ! 2nd: print the DDB info if device test failed and we are printing the list
0685 4 ! of failed devices
0686 4 ! last: move on to the next DDB.
0687 4 !-
0688 4 ! NOTES ON FAIL vs PASS vs INC HDWR PREP:
0689 4 ! FAIL is only for essential devices.
0690 4 ! INC HDWR PREP, as far as the summary is concerned, is only
0691 4 ! for essential devices and for non-essential devices which
0692 4 ! are also available.
0693 4 ! PASS is the whatever is not FAIL and not INC HDWR PREP BUT
0694 4 ! non-essential devices which are also not available
0695 4 ! will not be in this list nor in any Auto Summary list.
0696 4 !-
0697 4 REGISTER
0698 4 Prep_Error : BYTE,
0699 4 Bad : BYTE,
0700 4 Essential_Device : BYTE,
0701 4 Finished : BYTE,
0702 4 DDB_Fail : BYTE,
0703 4 DDB_Other : BYTE,
0704 4 DDB_Pass : BYTE,
0705 4 DDB_Inc_Prep : BYTE;
0706 4
0707 4 Finished = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete>;
0708 4 Essential_Device = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Essential_Device>;
0709 4 Bad = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad>;
0710 4 Prep_Error = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error>;
0711 4
0712 4
0713 5 IF (.DDB_Ptr [CRD$K_DDB_PTable_Entry] NEQ 0)
0714 4 THEN
0715 5 BEGIN
0716 5 !+
0717 5 ! Determine if DDB is FAIL
0718 5 !-
0719 7 DDB_Fail = ( ((NOT(.Finished)) OR .Bad)
0720 6 AND
0721 7 (NOT (.Prep_Error))
0722 5 );
0723 5 !+

```



```

: 0724 5 ! Determine if Incorrect Preparation
: 0725 5 !-
: 0726 5 DDB_Inc_Prep = Boolean (.Prep_Error);
: 0727 5
: 0728 5 !+
: 0729 5 ! Determine if DDB is PASS
: 0730 5 !-
: 0731 5 DDB_Pass = ((NOT(.DDB_Fail)) AND (NOT(.DDB_Inc_Prep)));
: 0732 5
: 0733 5 !+
: 0734 5 ! Determine if DDB is OTHERS
: 0735 5 !-
: 0736 5 DDB_Other = False;
: 0737 4 END;
: 0738 4
: 0739 4
: 0740 5 IF (.DDB_Ptr [CRD$K_DDB_PTable_Entry] EQL 0)
: 0741 4 THEN
: 0742 5 BEGIN
: 0743 5 DDB_Fail = .Essential_Device;
: 0744 5 DDB_Inc_Prep = False;
: 0745 5 DDB_Pass = False;
: 0746 5 DDB_Other = NOT (.Essential_Device);
: 0747 4 END;
: 0748 4
: 0749 4 !+
: 0750 4 ! Determine if any DDB thus far has FAILED or INC PREP'd
: 0751 4 ! Note there is no Some_Pass because CPU and MEMORY always
: 0752 4 ! pass in microdiagnostics before Auto Summary
: 0753 4 !-
: 0754 4 Some_Fail = .Some_Fail OR .DDB_Fail;
: 0755 4
: 0756 4 Some_Inc_Prep = .Some_Inc_Prep OR .DDB_Inc_Prep;
: 0757 4
: 0758 4 Some_Other = .Some_Other OR .DDB_Other;
: 0759 4
: 0760 5 IF (SELECTONE .I OF
: 0761 5 SET
: 0762 5 [0]: False; ! Do no printing for this pass thru DDBs
: 0763 5 [1]: .DDB_Fail;
: 0764 5 [2]: .DDB_Pass;
: 0765 5 [3]: .DDB_Inc_Prep;
: 0766 5 [4]: .DDB_Other;
: 0767 5 TES
: 0768 5 ) ! End of SELECTONE statement
: 0769 4 THEN
: 0770 5 BEGIN
: 0771 5 !+
: 0772 5 ! Set up for printing Hardware Name
: 0773 5 !-
: 0774 5
: 0775 5 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 0776 5 ! Point to the P-Table
: 0777 5 !+
: 0778 5 ! If there is a P-Table for this device, then

```

```

; 0779 5 ! use it to get the generic name
; 0780 5 ! Otherwise, we only know what the device name
; 0781 5 ! should be.
; 0782 5 !-
; 0783 6 IF (.PTable_Ptr NEQ 0)
; 0784 5 THEN
; 0785 6 BEGIN
; 0786 6 Hdwr_Name_Ptr = PTable_Ptr [HP$T_TYPE];
; 0787 6 ! Point to the Hardware device name ASCII
; 0788 6
; 0789 6 !+
; 0790 6 ! Set up for printing Generic Device Name
; 0791 6 !-
; 0792 6
; 0793 6 Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
; 0794 6 ! Get an ASCII device name string from the Ptable
; 0795 6 END
; 0796 5 ELSE
; 0797 6 BEGIN
; 0798 6 BIND Diag_Support_Vector = (.DDB_Ptr [CRD$K_DDB_Auto_Support_Entry]) : Hardware_Support_Vector;
; 0799 6 LOCAL
; 0800 6 Generic_Dev_Name : REF VECTOR [,BYTE],
; 0801 6 Temp_Dev_Name : REF VECTOR [,BYTE];
; 0802 6
; 0803 6 Dev_Name = .Diag_Support_Vector [CRD$K_Device_Name];
; 0804 6 Generic_Dev_Name = .Diag_Support_Vector [CRD$K_Device_Name];
; 0805 6
; 0806 6 INCR J FROM 0 TO 7 DO
; 0807 7 BEGIN
; 0808 7 ! Start INCR-DO loop
; 0809 7 SELECTONE .J OF
; 0810 7 SET
; 0811 8 [0]: BEGIN
; 0812 8 Temp_Dev_Name = $ASCII ('DQA1');
; 0813 8 Hdwr_Name_Ptr = $ASCII ('RL02');
; 0814 7 END;
; 0815 8 [1]: BEGIN
; 0816 8 Temp_Dev_Name = $ASCII ('XGA0');
; 0817 8 Hdwr_Name_Ptr = $ASCII ('DMF32S');
; 0818 7 END;
; 0819 8 [2]: BEGIN
; 0820 8 Temp_Dev_Name = $ASCII ('TXA');
; 0821 8 Hdwr_Name_Ptr = $ASCII ('DMF32A');
; 0822 7 END;
; 0823 8 [3]: BEGIN
; 0824 8 Temp_Dev_Name = $ASCII ('LCA');
; 0825 8 Hdwr_Name_Ptr = $ASCII ('DMF32P');
; 0826 7 END;
; 0827 8 [4]: BEGIN
; 0828 8 Temp_Dev_Name = $ASCII ('DAA0');
; 0829 8 Hdwr_Name_Ptr = $ASCII ('RC25');
; 0830 7 END;
; 0831 8 [5]: BEGIN
; 0832 8 Temp_Dev_Name = $ASCII ('DAA1');
; 0833 8 Hdwr_Name_Ptr = $ASCII ('RCF25');

```

```

: 0834 7      END;
: 0835 8      [6]: BEGIN
: 0836 8          Temp_Dev_Name = $ASCIC ('DJA1');
: 0837 8          Hdwr_Name_Ptr = $ASCIC ('RA60');
: 0838 7      END;
: 0839 8      [7]: BEGIN
: 0840 8          Temp_Dev_Name = $ASCIC ('DJA0');
: 0841 8          Hdwr_Name_Ptr = $ASCIC ('RA60');
: 0842 7      END;
: 0843 8      [OTHERWISE]: BEGIN
: 0844 8          Hdwr_Name_Ptr = crd$gt_unknown;
: 0845 7      END;
: 0846 7          TES;
: 0847 7
: 0848 8      IF (CH$EQL (.Generic_Dev_Name [0], Generic_Dev_Name [1],
: 0849 8          .Temp_Dev_Name [0], Temp_Dev_Name [1])
: 0850 8          )
: 0851 7      THEN
: 0852 7          EXITLOOP;
: 0853 6      END; ! End of INCR-DO loop
: 0854 5      END; ! End of P_Table EQL 0
: 0855 5
: 0856 5
: 0857 5
: 0858 5      !+
: 0859 5      ! Print the system hardware text
: 0860 5      !-
: 0861 5
: 0862 5      !+
: 0863 5      ! For the Other category, the format is different
: 0864 5      ! than for the Pass, Fail, or Inc Hdwr Prep.
: 0865 5      !-
: 0866 5
: 0867 6      IF (.I NEQ 4)
: 0868 5      THEN
: 0869 6          BEGIN
: 0870 7          IF (.Screen_Counter EQL 3)
: 0871 6          THEN
: 0872 7              BEGIN
: 0873 7                  $CRD_Print (CRD$GT_Ncw_Line);
: 0874 7                  Screen_Counter = 0;
: 0875 6              END;
: 0876 6
: 0877 6          Screen_Counter = .Screen_Counter + 1;
: 0878 5          END;
: 0879 5
: 0880 5      $CRD_Print (CRD$GT_Tab);
: 0881 5      $CRD_Print (.Hdwr_Name_Ptr);
: 0882 5      $CRD_Print (CRD$GT_Slash);
: 0883 5      $CRD_Print (.Dev_Name);
: 0884 5      $CRD_Print (CRD$GT_Tab);
: 0885 5
: 0886 6      IF (.I EQL 4)
: 0887 5      THEN
: 0888 5          $CRD_Print (CRD$GT_Dev_Unavailable_2);

```

```

: 0889 5
: 0890 5      END
: 0891 4      ;      ! End of large IF THEN command
: 0892 4
: 0893 4
: 0894 4      !+
: 0895 4      ! We are done processing this DDB so move on to the next DDB
: 0896 4      !-
: 0897 4
: 0898 4      DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink];
: 0899 4
: 0900 4      END      ! End of DO command in DO-UNTIL loop.
: 0901 4
: 0902 3      UNTIL (.DDB_Ptr EQL .CRD$GA_First_Diagnostic);
: 0903 3          ! End of UNTIL-DO loop.
: 0904 3
: 0905 5          IF ( (NOT (.Some_Other)) ! Make sure there is always a space
: 0906 4              AND      ! between summary and END of AUTO
: 0907 5              (.I EQL 4) ! message.
: 0908 4              )
: 0909 3          THEN
: 0910 3      $CRD_Print (CRD$GT_New_Line);
: 0911 3
: 0912 3
: 0913 2      END;      ! End of INCR I FROM 0 TO 4 loop.
: 0914 1      END;      ! End CRD$Auto_Summary

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

31 41 51 44 04 0005A P.AAC: .ASCII <4>\DQA1\      ;
32 30 4C 52 04 0005F P.AAD: .ASCII <4>\RL02\      ;
30 41 47 58 04 00064 P.AAE: .ASCII <4>\XGA0\      ;
53 32 33 46 4D 44 06 00069 P.AAF: .ASCII <6>\DMF32S\      ;
41 41 58 54 03 00070 P.AAG: .ASCII <3>\TXA\      ;
41 32 33 46 4D 44 06 00074 P.AAH: .ASCII <6>\DMF32A\      ;
41 41 43 4C 03 0007B P.AAI: .ASCII <3>\LCA\      ;
50 32 33 46 4D 44 06 0007F P.AAJ: .ASCII <6>\DMF32P\      ;
30 41 41 44 04 00086 P.AAK: .ASCII <4>\DAA0\      ;
35 32 43 52 04 0008B P.AAL: .ASCII <4>\RC25\      ;
31 41 41 44 04 00090 P.AAM: .ASCII <4>\DAA1\      ;
35 32 46 43 52 05 00095 P.AAN: .ASCII <5>\RCF25\      ;
31 41 4A 44 04 0009B P.AAO: .ASCII <4>\DJA1\      ;
30 36 41 52 04 000A0 P.AAP: .ASCII <4>\RA60\      ;
30 41 4A 44 04 000A5 P.AAQ: .ASCII <4>\DJA0\      ;
30 36 41 52 04 000AA P.AAR: .ASCII <4>\RA60\      ;

```

```

.EXTRN DS$GETTERM, CRD$GT_SUMMARY_TITLE
.EXTRN CRD$GT_ALL_FAILURES
.EXTRN CRD$GT_ALL_PASSES
.EXTRN CRD$GT_ALL_INC_HDWR_PREP
.EXTRN CRD$GT_ALL_OTHERS
.EXTRN CRD$GT_INIT_ALL_PASSES
.EXTRN CRD$GET_DEVICE_NAME

```

.EXTRN CRD\$GT_UNKNOWN, CRD\$GT_NEW_LINE
.EXTRN CRD\$GT_TAB, CRD\$GT_SLASH
.EXTRN CRD\$GT_DEV_UNAVAILABLE_2

.PSECT CODE, NOWRT, SHR, PIC, 2

OFFC 00000 .ENTRY CRD\$AUTO_SUMMARY, Save R2,R3,R4,R5,R6,R7,- ; 0561
R8,R9,R10,R11 ;
5E 0C C2 00002 SUBL2 #12, SP ;
7E 7C 00005 CLRQ SOME_INC_PREP ; 0585
7E D4 00007 CLRL SOME_OTHER ;
10 AE 9F 00009 PUSHAB CONSOLE_CHAR ; 0610
00000000G 9F 01 FB 0000C CALLS #1, a#DS\$GETTERM ;
16 50 E9 00013 BLBC R0, 1\$;
60 8F 11 AE 91 00016 CMPB CONSOLE_CHAR+1, #96 ; 0619
20 13 0001B BEQL 2\$;
40 8F 11 AE 91 0001D CMPB CONSOLE_CHAR+1, #64 ; 0621
19 13 00022 BEQL 2\$;
6E 8F 11 AE 91 00024 CMPB CONSOLE_CHAR+1, #110 ; 0622
12 13 00029 BEQL 2\$;
04 0002B RET ; 0625
00000000G EF 9F 0002C 1\$: PUSHAB CRD\$GT_INTERNAL_ERROR ; 0628
01 DD 00032 PUSHL #1 ;
1A DD 00034 PUSHL #26 ;
00000000G FF 03 FB 00036 CALLS #3, aCRD\$PRINT ;
00000000G EF 9F 0003D 2\$: PUSHAB CRD\$GT_SUMMARY_TITLE ; 0635
01 DD 00043 PUSHL #1 ;
1A DD 00045 PUSHL #26 ;
00000000G FF 03 FB 00047 CALLS #3, aCRD\$PRINT ;
0C AE D4 0004E CLRL I ; 0638
01 0C AE D1 00051 3\$: CMPL I, #1 ; 0645
0C 12 00055 BNEQ 4\$;
42 08 AE E9 00057 BLBC SOME_FAIL, 8\$;
00000000G EF 9F 0005B PUSHAB CRD\$GT_ALL_FAILURES ;
2F 11 00061 BRB 7\$;
02 0C AE D1 00063 4\$: CMPL I, #2 ; 0648
08 12 00067 BNEQ 5\$;
00000000G EF 9F 00069 PUSHAB CRD\$GT_ALL_PASSES ;
21 11 0006F BRB 7\$;
03 0C AE D1 00071 5\$: CMPL I, #3 ; 0650
0C 12 00075 BNEQ 6\$;
22 04 AE E9 00077 BLBC SOME_INC_PREP, 8\$;
00000000G EF 9F 0007B PUSHAB CRD\$GT_ALL_INC_HDWR_PREP ;
0F 11 00081 BRB 7\$;
04 0C AE D1 00083 6\$: CMPL I, #4 ; 0651
14 12 00087 BNEQ 8\$;
11 6E E9 00089 BLBC SOME_OTHER, 8\$;
00000000G EF 9F 0008C PUSHAB CRD\$GT_ALL_OTHERS ;
01 DD 00092 7\$: PUSHL #1 ;
1A DD 00094 PUSHL #26 ;
00000000G FF 03 FB 00096 CALLS #3, aCRD\$PRINT ;
57 00000000G DO 0009D 8\$: MOVL CRD\$GA_FIRST_DIAGNOSTIC, DDB_PTR ; 0654
56 D4 000A4 CLRL SCREEN_COUNTER ; 0657
02 0C AE D1 000A6 CMPL I, #2 ; 0663
14 12 000AA BNEQ 9\$;

```

00000000G EF 9F 000AC PUSHAB CRD$GT_INIT_ALL_PASSES ; 0666
01 DD 000B2 PUSHL #1 ;
1A DD 000B4 PUSHL #26 ;
00000000G FF 03 FB 000B6 CALLS #3, @CRD$PRINT ;
56 02 D0 000BD MOVL #2, SCREEN_COUNTER ; 0667
50 14 A7 01 05 EF 000C0 9$: EXTZV #5, #1, 20(DDB_PTR), R0 ; 0707
53 50 90 000C6 MOVB R0, FINISHED ;
50 14 A7 01 02 EF 000C9 EXTZV #2, #1, 20(DDB_PTR), R0 ; 0708
52 50 90 000CF MOVB R0, ESSENTIAL_DEVICE ;
50 14 A7 01 04 EF 000D2 EXTZV #4, #1, 20(DDB_PTR), R0 ; 0709
51 50 90 000D8 MOVB R0, BAD ;
59 14 A7 01 01 EF 000DB EXTZV #1, #1, 20(DDB_PTR), R9 ; 0710
50 59 90 000E1 MOVB R9, PREP_ERROR ;
5A 08 A7 D0 000E4 MOVL 8(DDB_PTR), R10 ; 0713
29 13 000E8 BEQL 10$ ;
5B 53 9A 000EA MOVZBL FINISHED, R11 ; 0719
51 51 9A 000ED MOVZBL BAD, R1 ;
51 5B 51 CB 000F0 BICL3 R1, R11, R1 ;
53 50 9A 000F4 MOVZBL PREP_ERROR, R3 ; 0721
51 53 C8 000F7 BISL2 R3, R1 ;
59 51 92 000FA MCOMB R1, DDB_FAIL ; 0719
51 50 01 00 EFD EXTZV #0, #1, PREP_ERROR, R1 ; 0726
53 51 90 00102 MOVB R1, DDB_INC_PREP ;
50 59 9A 00105 MOVZBL DDB_FAIL, R0 ; 0731
5B 53 9A 00108 MOVZBL DDB_INC_PREP, R11 ;
50 5B C8 0010B BISL2 R11, R0 ;
51 50 92 0010E MCOMB R0, DDB_PASS ;
50 94 00111 CLRB DDB_OTHER ; 0736
5A D5 00113 10$: TSTL R10 ; 0740
0A 12 00115 BNEQ 11$ ;
59 52 90 00117 MOVB ESSENTIAL_DEVICE, DDB_FAIL ; 0743
53 94 0011A CLRB DDB_INC_PREP ; 0744
51 94 0011C CLRB DDB_PASS ; 0745
50 52 92 0011E MCOMB ESSENTIAL_DEVICE, DDB_OTHER ; 0746
52 59 9A 00121 11$: MOVZBL DDB_FAIL, R2 ; 0754
08 AE 52 C8 00124 BISL2 R2, SOME_FAIL ;
52 53 9A 00128 MOVZBL DDB_INC_PREP, R2 ; 0756
04 AE 52 C8 0012B BISL2 R2, SOME_INC_PREP ;
52 50 9A 0012F MOVZBL DDB_OTHER, R2 ; 0758
6E 52 C8 00132 BISL2 R2, SOME_OTHER ;
0C AE D5 00135 TSTL 1 ; 0762
03 12 00138 BNEQ 12$ ;
019E 31 0013A BRW 31$ ;
01 0C AE D1 0013D 12$: CMPL 1, #1 ; 0763
06 12 00141 BNEQ 13$ ;
27 59 E8 00143 BLBS DDB_FAIL, 16$ ;
0192 31 00146 BRW 31$ ;
02 0C AE D1 00149 13$: CMPL 1, #2 ; 0764
06 12 0014D BNEQ 14$ ;
1B 51 E8 0014F BLBS DDB_PASS, 16$ ;
0186 31 00152 BRW 31$ ;
03 0C AE D1 00155 14$: CMPL 1, #3 ; 0765
06 12 00159 BNEQ 15$ ;
0F 53 E8 0015B BLBS DDB_INC_PREP, 16$ ;
017A 31 0015E BRW 31$ ;

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```

04 0C AE D1 00161 15$: CMPL 1, #4 ; 0766
06 12 00165 BNEQ 16$ ;
03 50 E8 00167 BLBS DDB_OTHER, 16$ ;
016E 31 0016A BRW 31$ ;
58 5A D0 0016D 16$: MOVL R10, PTABLE_PTR ; 0775
13 13 00170 BEQL 17$ ; 0783
54 26 A8 9E 00172 MOVAB 38(R8), HDWR_NAME_PTR ; 0786
58 DD 00176 PUSHL PTABLE_PTR ; 0793
00000000G EF 01 FB 00178 CALLS #1, CRD$GET_DEVICE_NAME ;
55 50 D0 0017F MOVL R0, DEV_NAME ;
00D2 31 00182 BRW 28$ ; 0783
50 0C A7 D0 00185 17$: MOVL 12(DDB_PTR), R0 ; 0798
55 0C A0 D0 00189 MOVL 12(R0), DEV_NAME ; 0803
5B 0C A0 D0 0018D MOVL 12(R0), GENERIC_DEV_NAME ; 0804
5A D4 00191 CLRL J ; 0848
11 12 00193 18$: BNEQ 19$ ; 0811
59 00000000' EF 9E 00195 MOVAB P.AAC, TEMP_DEV_NAME ; 0812
54 00000000' EF 9E 0019C MOVAB P.AAD, HDWR_NAME_PTR ; 0813
009B 31 001A3 BRW 27$ ; 0809
01 5A D1 001A6 19$: CMPL J, #1 ; 0815
11 12 001A9 BNEQ 20$ ;
59 00000000' EF 9E 001AB MOVAB P.AAE, TEMP_DEV_NAME ; 0816
54 00000000' EF 9E 001B2 MOVAB P.AAF, HDWR_NAME_PTR ; 0817
0085 31 001B9 BRW 27$ ; 0809
02 5A D1 001BC 20$: CMPL J, #2 ; 0819
10 12 001BF BNEQ 21$ ;
59 00000000' EF 9E 001C1 MOVAB P.AAG, TEMP_DEV_NAME ; 0820
54 00000000' EF 9E 001C8 MOVAB P.AAH, HDWR_NAME_PTR ; 0821
70 11 001CF BRB 27$ ; 0809
03 5A D1 001D1 21$: CMPL J, #3 ; 0823
10 12 001D4 BNEQ 22$ ;
59 00000000' EF 9E 001D6 MOVAB P.AAI, TEMP_DEV_NAME ; 0824
54 00000000' EF 9E 001DD MOVAB P.AAJ, HDWR_NAME_PTR ; 0825
5B 11 001E4 BRB 27$ ; 0809
04 5A D1 001E6 22$: CMPL J, #4 ; 0827
10 12 001E9 BNEQ 23$ ;
59 00000000' EF 9E 001EB MOVAB P.AAK, TEMP_DEV_NAME ; 0828
54 00000000' EF 9E 001F2 MOVAB P.AAL, HDWR_NAME_PTR ; 0829
46 11 001F9 BRB 27$ ; 0809
05 5A D1 001FB 23$: CMPL J, #5 ; 0831
10 12 001FE BNEQ 24$ ;
59 00000000' EF 9E 00200 MOVAB P.AAM, TEMP_DEV_NAME ; 0832
54 00000000' EF 9E 00207 MOVAB P.AAN, HDWR_NAME_PTR ; 0833
31 11 0020E BRB 27$ ; 0809
06 5A D1 00210 24$: CMPL J, #6 ; 0835
10 12 00213 BNEQ 25$ ;
59 00000000' EF 9E 00215 MOVAB P.AAO, TEMP_DEV_NAME ; 0836
54 00000000' EF 9E 0021C MOVAB P.AAP, HDWR_NAME_PTR ; 0837
1C 11 00223 BRB 27$ ; 0809
07 5A D1 00225 25$: CMPL J, #7 ; 0839
10 12 00228 BNEQ 26$ ;
59 00000000' EF 9E 0022A MOVAB P.AAQ, TEMP_DEV_NAME ; 0840
54 00000000' EF 9E 00231 MOVAB P.AAR, HDWR_NAME_PTR ; 0841
07 11 00238 BRB 27$ ; 0809
54 00000000G EF 9E 0023A 26$: MOVAB CRD$GT_UNKNOWN, HDWR_NAME_PTR ; 0844

```

```

51      6B 9A 00241 27$: MOVZBL (GENERIC_DEV_NAME), R1      ; 0848
50      69 9A 00244      MOVZBL (TEMP_DEV_NAME), R0      ; 0849
50      00 01 AB      51 2D 00247      CMPC5      R1, 1(GENERIC_DEV_NAME), #0, R0, -      ;
01      A9      0024D      1(TEMP_DEV_NAME)      ;
06      13 0024F      BEQL      28$      ;
FF3C    5A      01      07 F1 00251      ACBL      #7, #1, J, 18$      ; 0806
04      0C AE D1 00257 28$: CMPL      I, #4      ; 0867
1A      13 0025B      BEQL      30$      ;
03      56 D1 0025D      CMPL      SCREEN_COUNTER, #3      ; 0870
13      12 00260      BNEQ      29$      ;
00000000G EF 9F 00262      PUSHAB CRD$GT_NEW_LINE      ; 0873
01      DD 00268      PUSHL      #1      ;
1A      DD 0026A      PUSHL      #26      ;
00000000G FF      03 FB 0026C      CALLS      #3, aCRD$PRINT      ;
56      D4 00273      CLRL      SCREEN_COUNTER      ; 0874
56      D6 00275 29$: INCL      SCREEN_COUNTER      ; 0877
00000000G EF 9F 00277 30$: PUSHAB CRD$GT_TAB      ; 0880
01      DD 0027D      PUSHL      #1      ;
1A      DD 0027F      PUSHL      #26      ;
00000000G FF      03 FB 00281      CALLS      #3, aCRD$PRINT      ;
54      DD 00288      PUSHL      HDWR_NAME_PTR      ; 0881
01      DD 0028A      PUSHL      #1      ;
1A      DD 0028C      PUSHL      #26      ;
00000000G FF      03 FB 0028E      CALLS      #3, aCRD$PRINT      ;
00000000G EF 9F 00295      PUSHAB CRD$GT_SLASH      ; 0882
01      DD 0029B      PUSHL      #1      ;
1A      DD 0029D      PUSHL      #26      ;
00000000G FF      03 FB 0029F      CALLS      #3, aCRD$PRINT      ;
55      DD 002A6      PUSHL      DEV_NAME      ; 0883
01      DD 002A8      PUSHL      #1      ;
1A      DD 002AA      PUSHL      #26      ;
00000000G FF      03 FB 002AC      CALLS      #3, aCRD$PRINT      ;
00000000G EF 9F 002B3      PUSHAB CRD$GT_TAB      ; 0884
01      DD 002B9      PUSHL      #1      ;
1A      DD 002BB      PUSHL      #26      ;
00000000G FF      03 FB 002BD      CALLS      #3, aCRD$PRINT      ;
04      0C AE D1 002C4      CMPL      I, #4      ; 0886
11      12 002C8      BNEQ      31$      ;
00000000G EF 9F 002CA      PUSHAB CRD$GT_DEV_UNAVAILABLE_2      ; 0888
01      DD 002D0      PUSHL      #1      ;
1A      DD 002D2      PUSHL      #26      ;
00000000G FF      03 FB 002D4      CALLS      #3, aCRD$PRINT      ;
57      67 D0 002DB 31$: MOVL      (DDB_PTR), DDB_PTR      ; 0898
00000000G EF      57 D1 002DE      CMPL      DDB_PTR, CRD$GA_FIRST_DIAGNOSTIC      ; 0902
03      13 002E5      BEQL      32$      ;
FDD6    31 002E7      BRW      9$      ;
17      6E E8 002EA 32$: BLBS      SOME_OTHER, 33$      ; 0905
04      0C AE D1 002ED      CMPL      I, #4      ; 0907
11      12 002F1      BNEQ      33$      ;
00000000G EF 9F 002F3      PUSHAB CRD$GT_NEW_LINE      ; 0910
01      DD 002F9      PUSHL      #1      ;
1A      DD 002FB      PUSHL      #26      ;
00000000G FF      03 FB 002FD      CALLS      #3, aCRD$PRINT      ;
FD46    0C AE      01      04 F1 00304 33$: ACBL      #4, #1, I, 3$      ; 0638
04      0030B      RET      ; 0914
  
```


ZZ-ENSAB-2.0 CRD\$Auto_Summary Routine H 16
CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 5 Frame H16 Sequence 1026
V01.20 CRD\$Auto_Summary Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 29 (4)

; Routine Size: 780 bytes, Routine Base: CODE + 036E

; 0915 1

```

: 0916 1 xSBTTL 'CRD$Screen_Pause Routine'
: 0917 1
: 0918 1 GLOBAL ROUTINE CRD$Screen_Pause (SCREEN_Operation) : NOVALUE =
: 0919 1
: 0920 1 !*
: 0921 1 ! Functional Description:
: 0922 1
: 0923 1 ! Handles output of CRD messages to soft console devices
: 0924 1
: 0925 1 ! Formal Input Parameters:
: 0926 1
: 0927 1 ! SCREEN_Operation: The soft console support operation that needs to be performed. Some
: 0928 1 ! operations apply only to VT52 or VT100 and will simply exit routine if terminal
: 0929 1 ! is hardcopy. Examples of this include Press Return for More prompt.
: 0930 1
: 0931 1 ! Formal Output Parameters:
: 0932 1
: 0933 1 ! None
: 0934 1
: 0935 1 ! Side Effects:
: 0936 1
: 0937 1 ! None
: 0938 1
: 0939 1 ! Completion Codes:
: 0940 1
: 0941 1 ! None
: 0942 1 !--
: 0943 2 BEGIN      ! Routine CRD$Screen_Pause
: 0944 2
: 0945 2 REGISTER
: 0946 2   Prompt : BYTE,
: 0947 2   Oper  : BYTE;
: 0948 2 LOCAL
: 0949 2   Type_Clear_Screen,
: 0950 2   Prompt_Msg,
: 0951 2   Valid_Status,
: 0952 2   Local_OperInput_Buffer : $MEN_OperInput_Buffer_ATTR,
: 0953 2   Console_Char : $CRD_Termchar_ATTR;
: 0954 2
: 0955 2 BIND
: 0956 2   T_Prompt_Default = $ASCIC ('NULLRESPONSE') : VECTOR [,BYTE];
: 0957 2
: 0958 2
: 0959 2 !*
: 0960 2 ! BEFORE DOING ANYTHING, CHECK THAT THE CONSOLE IS SOFT (i.e. VT100 or VT52)
: 0961 2 ! AND NOT HARD (i.e. LA34 etc.)
: 0962 2 !-
: 0963 3 IF ($DS_GETTERM (TERMCHAR = Console_Char))
: 0964 3   ! If SS$NORMAL status on getting
: 0965 3   ! terminal characteristics
: 0966 2 THEN
: 0967 3   BEGIN
: 0968 3   !*
: 0969 3   ! If console is not a CRD supported soft console, then just RETURN.
: 0970 3   ! Otherwise, continue normally.

```

```

: 0971 3  !-
: 0972 3      SELECTONE (.Console_Char [Termchar$B_Type]) OF
: 0973 3  SET
: 0974 3      [TT$ _VT52]:          TYPE_CLEAR_SCREEN = $ASCIC ('HJ');
: 0975 3      [TT$ _VT100]:        TYPE_CLEAR_SCREEN = $ASCIC ('[H[J');
: 0976 3  !*** [TT$ _VS125]:        TYPE_CLEAR_SCREEN = $ASCIC ('HJ');
: 0977 3      [TT$ _VT200_Series]: TYPE_CLEAR_SCREEN = $ASCIC ('[2J');
: 0978 3      [OTHERWISE]:          RETURN;
: 0979 3  !+
: 0980 3  ! Record which type of soft console it is so that the
: 0981 3  ! correct escape sequence is sent when clearing the screen
: 0982 3  !-
: 0983 3  TES;
: 0984 3  END
: 0985 2  ELSE
: 0986 2      $CRD_Print (CRD$GT_Internal_Error);
: 0987 2
: 0988 2
: 0989 2
: 0990 2  !+
: 0991 2  ! Now that we know its a soft console, decide which operation
: 0992 2  ! to perform
: 0993 2  !-
: 0994 2  SELECTONE .SCREEN_Operation OF
: 0995 2  SET
: 0996 2      [SCREEN$K_Press_Return, SCREEN$K_Press_Return_MM,
: 0997 2      SCREEN$K_Press_Return_TM, SCREEN$K_TM_Msg]:
: 0998 3      BEGIN      ! Begin SCREEN$K_Press_Return_xx
: 0999 3
: 1000 3  !+
: 1001 3  ! Pause and prompt operator to press RETURN to continue
: 1002 3  !-
: 1003 3
: 1004 3  Valid_Status = False; ! Assume the worst
: 1005 3
: 1006 3  Prompt = .DSA$V_Prompt;
: 1007 3  Oper   = .DSA$V_Oper;
: 1008 3
: 1009 3  CRD$GB_User_Prompt_Okay = True; ! Allow User_Prompt typecode to pass through CRD untouched.
: 1010 3  DSA$V_Prompt = On; ! Turn on PROMPTing to allow prompts from the operator
: 1011 3  DSA$V_Oper   = On; ! Turn on OPER to allow prompts from the operator
: 1012 3
: 1013 3  SELECTONE .SCREEN_Operation OF
: 1014 3  SET
: 1015 3      [SCREEN$K_Press_Return]: Prompt_Msg = CRD$GT_Press_Return;
: 1016 3
: 1017 3      [SCREEN$K_Press_Return_MM]: Prompt_Msg = CRD$GT_Press_Return_MM;
: 1018 3
: 1019 3      [SCREEN$K_Press_Return_TM]: Prompt_Msg = MEN$GT_Press_Return_TM;
: 1020 3
: 1021 3      [SCREEN$K_TM_Msg]: Prompt_Msg = MEN$GT_TM_Msg;
: 1022 3  TES;
: 1023 3
: 1024 3  DO
: 1025 4      BEGIN

```

```

: 1026 4
: 1027 4 $CRD_Print (CRD$GT_New_Line); ! Get prompt at start of the line
: 1028 4
: P 1029 5 IF ($MEN_ASKSTR (Msg_Adr = .Prompt_Msg,
: P 1030 5 Buf_Adr = Local_OperInput_Buffer,
: 1031 5 Def_Adr = T_Prompt_Default))
: 1032 4 THEN
: 1033 4 !+
: 1034 4 ! Valid response to prompt is either <CR/LF> or ^C followed by the 'Resume' choice
: 1035 4 ! from the ^C Menu. In both cases the default is deposited in the operator buffer.
: 1036 4 !-
: 1037 4
: 1038 7 IF (NOT (Valid_Status = (CH$EQL (.Local_OperInput_Buffer [0], Local_OperInput_Buffer [1],
: 1039 5 .T_Prompt_Default [0], T_Prompt_Default [1]))))
: 1040 4 THEN
: 1041 4 $CRD_Message (New_Line, MEN$GT_InvOperInput);
: 1042 4 END
: 1043 3 UNTIL (.Valid_Status); ! Repeat this till we get a valid answer
: 1044 3
: 1045 3 $CRD_Print (.Type_Clear_Screen);
: 1046 3 ! Start at top of screen after operator presses return
: 1047 3
: 1048 3 CRD$GB_User_Prompt_Okay = False; ! Disallow User_Prompt typecode to pass through CRD untouched.
: 1049 3 DSA$V_Prompt = .Prompt; ! Restore PROMPT flag
: 1050 3 DSA$V_Oper = .Oper; ! Restore OPER flag
: 1051 3
: 1052 2 END; ! End SCREEN$K_Press_Return
: 1053 2
: 1054 2
: 1055 2 [SCREEN$K_Clear_Screen]:
: 1056 3 BEGIN ! Begin SCREEN$K_Clear_Screen
: 1057 4 $CRD_Print (.Type_Clear_Screen)
: 1058 4 ! Print an escape sequence
: 1059 2 END; ! End SCREEN$K_Clear_Screen
: 1060 2
: 1061 2 [SCREEN$K_Count_Line]:
: 1062 3 BEGIN ! Begin SCREEN$K_Count_Line
: 1063 3 RETURN ! *** TEMPORARY
: 1064 2 END; ! End SCREEN$K_Count_Line
: 1065 2
: 1066 2 [OTHERWISE]:
: 1067 3 BEGIN
: 1068 4 $CRD_Print (CRD$GT_Internal_Error)
: 1069 2 END;
: 1070 2
: 1071 2 TES;
: 1072 1 END; ! Routine CRD$Screen_Pause

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

45 53 4E 4F 50 53 45 52 4C 4C 55 4E 0C 000AF P.AAS: .ASCII <12>\NULLRESPONSE\ ;
4A 1B 48 1B 04 000BC P.AAT: .ASCII <4><27>\H\<27>\J\ ;
4A 5B 1B 48 5B 1B 06 000C1 P.AAU: .ASCII <6><27>\[H\<27>\[J\ ;

```

4A 32 5B 1B 04 000C8 P.AAV: .ASCII <4><27>\[2J\ ;

T_PROMPT_DEFAULT= P.AAS
 .EXTRN CRD\$GB_USER_PROMPT_OKAY
 .EXTRN CRD\$GT_PRESS_RETURN
 .EXTRN CRD\$GT_PRESS_RETURN_MM
 .EXTRN MEN\$GT_PRESS_RETURN_TM
 .EXTRN MEN\$GT_TM_MSG, DS\$BREAK
 .EXTRN DS\$ASKSTR, MEN\$GT_INVOPERINPUT
 .EXTRN CRD\$GT_NEW_LINE_MESSAGE

.PSECT CODE,NOWRT, SHR, PIC,2

```

03FC 00000 .ENTRY CRD$SCREEN_PAUSE, Save R2,R3,R4,R5,R6,R7,- ; 0918
R8,R9
5E FEF8 CE 9E 00002 MOVAB -264(SP), SP ;
5E DD 00007 PUSHL SP ; 0963
00000000G 9F 01 FB 00009 CALLS #1, a#DS$GETTERM ;
32 50 E9 00010 BLBC R0, 4$ ;
50 01 AE 9A 00013 MOVZBL CONSOLE_CHAR+1, R0 ; 0972
40 8F 50 91 00017 CMPB R0, #64 ; 0974
09 12 0001B BNEQ 1$ ;
59 00000000' EF 9E 0001D MOVAB P.AAT, TYPE_CLEAR_SCREEN ;
30 11 00024 BRB 5$ ;
60 8F 50 91 00026 1$: CMPB R0, #96 ; 0975
09 12 0002A BNEQ 2$ ;
59 00000000' EF 9E 0002C MOVAB P.AAU, TYPE_CLEAR_SCREEN ;
21 11 00033 BRB 5$ ;
6E 8F 50 91 00035 2$: CMPB R0, #110 ; 0977
01 13 00039 BEQL 3$ ;
04 0003B RET ;
59 00000000' EF 9E 0003C 3$: MOVAB P.AAV, TYPE_CLEAR_SCREEN ;
11 11 00043 BRB 5$ ;
00000000G EF 9F 00045 4$: PUSHAB CRD$GT_INTERNAL_ERROR ; 0986
01 DD 0004B PUSHL #1 ;
1A DD 0004D PUSHL #26 ;
00000000G FF 03 FB 0004F CALLS #3, aCRD$PRINT ;
52 04 AC D0 00056 5$: MOVL SCREEN_OPERATION, R2 ; 0994
10 13 0005A BEQL 7$ ; 0996
03 52 D1 0005C CMPL R2, #3 ;
03 18 0005F BGEQ 6$ ;
0114 31 00061 BRW 15$ ;
05 52 D1 00064 6$: CMPL R2, #5 ;
03 15 00067 BLEQ 7$ ;
010C 31 00069 BRW 15$ ;
58 D4 0006C 7$: CLRL VALID_STATUS ; 1004
50 0000FE01 9F 01 05 EF 0006E EXTZV #5, #1, a#X0000FE01, R0 ; 1006
54 50 90 00077 MOVB R0, PROMPT ;
50 0000FE01 9F 01 04 EF 0007A EXTZV #4, #1, a#X0000FE01, R0 ; 1007
55 50 90 00083 MOVB R0, OPER ;
00000000G EF 01 90 00086 MOVB #1, CRD$GB_USER_PROMPT_OKAY ; 1009
0000FE01 9F 30 88 0008D BISB2 #48, a#X0000FE01 ; 1011
52 D5 00094 TSTL R2 ; 1015
09 12 00096 BNEQ 8$ ;
57 00000000G EF 9E 00098 MOVAB CRD$GT_PRESS_RETURN, PROMPT_MSG ;
  
```

```

28 11 0009F BRB 11$ ;
03 52 D1 000A1 8$: CMPL R2, #3 ; 1017
09 12 000A4 BNEQ 9$ ;
57 00000000G EF 9E 000A6 MOVAB CRD$GT_PRESS_RETURN_MM, PROMPT_MSG ;
1A 11 000AD BRB 11$ ;
04 52 D1 000AF 9$: CMPL R2, #4 ; 1019
09 12 000B2 BNEQ 10$ ;
57 00000000G EF 9E 000B4 MOVAB MEN$GT_PRESS_RETURN_TM, PROMPT_MSG ;
0C 11 000BB BRB 11$ ;
05 52 D1 000BD 10$: CMPL R2, #5 ; 1021
07 12 000C0 BNEQ 11$ ;
57 00000000G EF 9E 000C2 MOVAB MEN$GT_TM_MSG, PROMPT_MSG ;
00000000G EF 9F 000C9 11$: PUSHAB CRD$GT_NEW_LINE ; 1027
01 DD 000CF PUSHL #1 ;
1A DD 000D1 PUSHL #26 ;
00000000G FF 03 FB 000D3 CALLS #3, aCRD$PRINT ;
00000000G 9F 00 FB 000DA CALLS #0, aDS$BREAK ; 1031
7E D4 000E1 CLRL -(SP) ;
00000000' EF 9F 000E3 PUSHAB T_PROMPT_DEFAULT ;
7E D4 000E9 CLRL -(SP) ;
7E 48 8F 9A 000EB MOVZBL #72, -(SP) ;
18 AE 9F 000EF PUSHAB LOCAL_OPERINPUT_BUFFER ;
57 DD 000F2 PUSHL PROMPT_MSG ;
00000000G 9F 06 FB 000F4 CALLS #6, aDS$ASKSTR ;
52 50 D0 000FB MOVL R0, STATUS ;
00000000G 9F 00 FB 000FE CALLS #0, aDS$BREAK ;
44 52 E9 00105 BLBC STATUS, 13$ ;
51 08 AE 9A 00108 MOVZBL LOCAL_OPERINPUT_BUFFER, R1 ; 1038
50 00000000' EF 9A 0010C MOVZBL T_PROMPT_DEFAULT, R0 ; 1039
56 D4 00113 CLRL R6 ;
50 00 09 AE 51 2D 00115 CMPC5 R1, LOCAL_OPERINPUT_BUFFER+1, #0, R0, - ;
00000000' EF 0011B T_PROMPT_DEFAULT+1 ;
02 12 00120 BNEQ 12$ ;
56 D6 00122 INCL R6 ;
58 56 D0 00124 12$: MOVL R6, VALID_STATUS ; 1038
22 56 E8 00127 BLBS R6, 13$ ;
00000000G EF 9F 0012A PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1041
01 DD 00130 PUSHL #1 ;
1A DD 00132 PUSHL #26 ;
00000000G FF 03 FB 00134 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 0013B PUSHAB MEN$GT_INVOPERINPUT ;
01 DD 00141 PUSHL #1 ;
1A DD 00143 PUSHL #26 ;
00000000G FF 03 FB 00145 CALLS #3, aCRD$PRINT ;
03 58 E8 0014C 13$: BLBS VALID_STATUS, 14$ ; 1043
FF77 31 0014F BRW 11$ ;
59 DD 00152 14$: PUSHL TYPE_CLEAR_SCREEN ; 1045
01 DD 00154 PUSHL #1 ;
1A DD 00156 PUSHL #26 ;
00000000G FF 03 FB 00158 CALLS #3, aCRD$PRINT ;
00000000G EF 94 0015F CLRB CRD$GB_USER_PROMPT_OKAY ; 1048
0000FE01 9F 01 05 54 F0 00165 INSV PROMPT, #5, #1, a#^X0000FE01 ; 1049
0000FE01 9F 01 04 55 F0 0016E INSV OPER, #4, #1, a#^X0000FE01 ; 1050
04 00177 RET ; 0994
01 52 D1 00178 15$: CMPL R2, #1 ; 1055

```

```

04 12 0017B BNEQ 16$ ;
59 DD 0017D PUSHL TYPE_CLEAR_SCREEN ; 1057
0B 11 0017F BRB 17$ ;
02 52 D1 00181 16$: CMPL R2, #2 ; 1061
11 13 00184 BEQL 18$ ;
00000000G EF 9F 00186 PUSHAB CRD$GT_INTERNAL_ERROR ; 1068
01 DD 0018C 17$: PUSHL #1 ;
1A DD 0018E PUSHL #26 ;
00000000G FF 03 FB 00190 CALLS #3, @CRD$PRINT ;
04 00197 18$: RET ; 1072

```

```

; Routine Size: 408 bytes, Routine Base: CODE + 067A

```

```

; 1073 1 END ! End of CRDSTOP module
; 1074 0 ELUDOM

```

```

;
; PSECT SUMMARY
;
; Name      Bytes      Attributes
;
; DATA      205 NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
; WORK       104 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; CODE      2066 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

```

Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib02 452 812 813 816 817 820 821 824 825 828	829 832 833 836 837 840 841 956 974 975	
\$CRD_LITERALS	Macro	Lib03 154	977	
\$CRD_MESSAGE	Macro	Lib03 1041		
\$CRD_PRINT	Unbound	1041		
	Macro	Lib03 225 227 238 243 248 254 255 260 265 270	284 289 294 368 375 377 381 382 398 452	
		628 635 645 648 650 651 666 873 880 881	882 883 884 888 910 986 1027 1041 1045 1057	
		1068		
\$CRD_TERMCHAR_ATTR	Macro	Lib03 592 953		
\$CRD_TERMCHAR_FLD	Fieldset	Lib03 592 953		
\$DS_ASKSTR	KeyWMacr	Lib02 1031		
\$DS_BREAK	Macro	Lib02 1031		
\$DS_DSADEF	Macro	Lib02 155		
\$DS_GETTERM	KeyWMacr	Lib02 610 963		
\$DS_HPO_DECL	Macro	Lib02 600		
\$DS_HPO_F	Fieldset	Lib02 600		
\$DS_TYPEDEF	Macro	Lib02 225 227 238 243 248 254 255 260 265 270	284 289 294 368 375 377 381 382 398 454	
		628 635 645 648 650 651 666 873 880 881	882 883 884 888 910 986 1027 1041 1045 1057	
		1068		
\$EQLST	Macro	Lib04 154 156 225 227 238 243 248 254 255 260	265 270 284 289 294 368 375 377 381 382	
		398 454 628 635 645 648 650 651 666 873	880 881 882 883 884 888 910 986 1027 1041	
		1045 1057 1068		
\$ER	Comptime	172		
\$MEN_ASKSTR	KeyWMacr	Lib03 1029		
\$MEN_OPERINPUT_BUFFER_ATTR	Macro	Lib03 952		
\$MEN_SUPBLK_ATTR	Macro	Lib03 599		
\$MEN_SUPBLK_FLD	Fieldset	Lib03 599		
\$MODULE	Bind	172		
\$SCREEN_LITERALS	Macro	Lib03 156		
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal	154 371		
AUTO\$K_EXIT_CONTROL_C	Literal	154 246 554		
AUTO\$K_EXIT_DUMMY_2	Literal	154		
AUTO\$K_EXIT_DUMMY_3	Literal	154		
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal	154 263 388		
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal	154 297 390		
AUTO\$K_EXIT_INTERNAL_ERROR	Literal	154 252		
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal	154 379		
AUTO\$K_EXIT_LAST_REASON	Literal	154 154		
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal	154 258 387 401 461 479		
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal	154 287 389 402 462 480		
AUTO\$K_EXIT_NOERRORS_PREP	Literal	154 292 391 403 463 481		
BAD	Register	699 709= 719.		
BOOLEAN	Macro	Lib03 726		
CHAR_PTR	Local	303 313= 343a= 345= 345. 355a= 357= 357. 366.		
CONSOLE_CHAR	Local	592 610a 619. 621. 622.		
	Local	953 963a 972.		

Symbol	Type	Defined	Referenced	...
CRD\$AL_CRD_DISPATCH_VECTORS	External Lib03	209a		
CRD\$AUTO_SUMMARY	GlobRout	561 Lib03e	147f	395c
CRD\$CLEAR_CTRL_C_FLAG	ExtRout Lib03	231c	552c	
CRD\$CONTROL_C_HANDLER	GlobRout	527 Lib03e	141f	
CRD\$DISABLE_CTRL_C	ExtRout Lib03	230c	551c	
CRD\$DISPOSE	ExtRout Lib03	434c		
CRD\$DSR\$CHECK_AUTOTEST_OFF_SET	External Lib03	216.		
CRD\$DSR\$CHECK_MENUSET_OFF_SET	External Lib03	215.		
CRD\$DS_INTERFACE	ExtRout Lib03	521c		
CRD\$EXIT_DS	External Lib03	487.		
CRD\$GA_BEGIN	External Lib03	523ac		
CRD\$GA_CRD_MESSAGE_BUFFER	External Lib03	313a	365=	366a 368a
CRD\$GA_FIRST_DIAGNOSTIC	External Lib03	300m	315.	363. 418. 440.
Map		603 654. 902.		
CRD\$GB_AUTO_TO_MENU_OFF	Global	176	176=	223. 228= 518=
CRD\$GB_USER_PROMPT_OKAY	External Lib03	1009=	1048=	
CRD\$GET_DEVICE_NAME	ExtRout Lib03	793c		
CRD\$GL_CRD_DEBUG_VECTOR	Global	179 Lib03e	503.	
CRD\$GT_ALL_FAILURES	External Lib03	645a		
CRD\$GT_ALL_INC_HDWR_PREP	External Lib03	650a		
CRD\$GT_ALL_OTHERS	External Lib03	651a		
CRD\$GT_ALL_PASSES	External Lib03	648a		
CRD\$GT_CONTROL_C_ABORT	External Lib03	248a		
CRD\$GT_CRD_BAD_DEVICE	External Lib03	368a		
CRD\$GT_CRD_DEV_UNTESTED	External Lib03	294a		
CRD\$GT_CRD_END_MESSAGE	External Lib03	398a		
CRD\$GT_CRD_ERRORS_COMPLETE	External Lib03	265a		
CRD\$GT_CRD_EVSBA_ERROR	External Lib03	375a		
CRD\$GT_CRD_EVSBB_ERROR	External Lib03	377a		
CRD\$GT_CRD_FATAL_ERROR	External Lib03	382a		
CRD\$GT_CRD_INCOMPLETE	External Lib03	289a		
CRD\$GT_CRD_NO_ERRORS	External Lib03	260a		
CRD\$GT_DEV_UNAVAILABLE_2	External Lib03	888a		
CRD\$GT_EXIT_TO_CLI	External Lib03	227a		
CRD\$GT_EXIT_TO_CONSOLE	External Lib03	225a		
CRD\$GT_INIT_ALL_PASSES	External Lib03	666a		
CRD\$GT_INTERNAL_ERROR	External Lib03	254a	628a	986a 1068a
CRD\$GT_INTERNAL_ERROR_ABORT	External Lib03	255a		
CRD\$GT_INV_BASE_SYSTEM	External Lib03	381a		
CRD\$GT_NEW_LINE	External Lib03	873a	910a	1027a
CRD\$GT_NEW_LINE_MESSAGE	External Lib03	1041a		
CRD\$GT_PRESS_RETURN	External Lib03	1015a		
CRD\$GT_PRESS_RETURN_MM	External Lib03	1017a		
CRD\$GT_SLASH	External Lib03	882a		
CRD\$GT_SPACE_AND_SPACE	External Lib03	338m	341.	342. 345.
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	Unbound		1041	
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	Unbound		1041	
CRD\$GT_SUMMARY_TITLE	External Lib03	635a		
CRD\$GT_TAB	External Lib03	880a	884a	
CRD\$GT_UNKNOWN	External Lib03	844a		
CRD\$GT_WHICH_CRD	External Lib03	248.	254. 255. 260. 265. 289. 294. 368. 375. 377.	
		382. 398.		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	154		

Symbol	Type	Defined	Referenced	...
CRD\$K_ACTION_RANGE_ERROR	Literal	154		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	154		
CRD\$K_ADVANCE_GENERAL_COM	Literal	154		
CRD\$K_ADVANCE_STATE	Literal	154		
CRD\$K_ALLOCATION_ERROR	Literal	154		
CRD\$K_ASSIGN_PTABL_PTRS	Literal	154		
CRD\$K_AUTOSIZER_ERROR	Literal	154		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	154		
CRD\$K_BAD_ACTION_NUMBER	Literal	154		
CRD\$K_BAD_TYPECODE_ERROR	Literal	154		
CRD\$K_BASE_SYSTEM_IDC	Literal	154		
CRD\$K_BASE_SYSTEM_LESI	Literal	154		
CRD\$K_BASE_SYSTEM_NULL	Literal	154		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	154		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	154		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	154		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	154		
CRD\$K_CRD_INITIALIZATION	Literal	154	521	
CRD\$K_CREATE_HST	Literal	154		
CRD\$K_DATA_LENGTH_ERROR	Literal	154		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	154	322	798
CRD\$K_DDB_BLINK	Literal	154		
CRD\$K_DDB_FLINK	Literal	154	360	432 898
CRD\$K_DDB_LAST_ENTRY	Literal	154		
CRD\$K_DDB_MEMORY_SIZE	Literal	154		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	154		
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	154		
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	154		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	154		
CRD\$K_DDB_PTABL_ENTRY	Literal	154	713	740 775
CRD\$K_DDB_STATUS	Literal	154	319	427 707 708 709 710
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	154		
CRD\$K_DEVICE_NAME	Literal	154	326	803 804
CRD\$K_DIAGNOSTIC_ERROR	Literal	154		
CRD\$K_DIAGNOSTIC_NAME	Literal	154		
CRD\$K_DONE_GENERAL_COMS	Literal	154		
CRD\$K_DO_NOTHING	Literal	154		
CRD\$K_DUMMY_10	Literal	154		
CRD\$K_DUMMY_11	Literal	154		
CRD\$K_DUMMY_12	Literal	154		
CRD\$K_DUMMY_13	Literal	154		
CRD\$K_DUMMY_3	Literal	154		
CRD\$K_DUMMY_4	Literal	154		
CRD\$K_DUMMY_5	Literal	154		
CRD\$K_DUMMY_6	Literal	154		
CRD\$K_DUMMY_7	Literal	154		
CRD\$K_DUMMY_8	Literal	154		
CRD\$K_DUMMY_9	Literal	154		
CRD\$K_EXIT_CRD	Literal	154		
CRD\$K_HOOK_POINT	Literal	154	521	
CRD\$K_HS_INTERNAL_ERROR	Literal	154		
CRD\$K_IDC_EVDLB	Literal	154		
CRD\$K_IDC_EVDLC	Literal	154		

Symbol Type Defined Referenced ...

CRD\$K_IDC_EVDLD	Literal	154	
CRD\$K_IDC_EVRAD_0	Literal	154	
CRD\$K_IDC_EVRAD_1	Literal	154	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	154	
CRD\$K_INTERNAL_ERROR	Literal	154	
CRD\$K_LAST_ACTION_ROUTINE	Literal	154	
CRD\$K_LAST_ENTRY	Literal	154	
CRD\$K_LAST_FUNCTION	Literal	154	
CRD\$K_LAST_HOOK_POINT	Literal	154	
CRD\$K_LAST_INTERNAL_ERROR	Literal	154	
CRD\$K_LAST_TYPE	Literal	154	
CRD\$K_LESI_ENWCA	Literal	154	
CRD\$K_LESI_EVRMB_0	Literal	154	
CRD\$K_LESI_EVRMB_1	Literal	154	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	154	
CRD\$K_LEVEL_4_PASSED	Literal	154	
CRD\$K_LOAD_AUTOSIZER	Literal	154	
CRD\$K_LOAD_ERROR	Literal	154	
CRD\$K_LOAD_GENERAL_COM	Literal	154	
CRD\$K_LOAD_LOAD_COM	Literal	154	
CRD\$K_LOAD_SELECT_COM	Literal	154	
CRD\$K_LOAD_SET_EVENT_COM	Literal	154	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	154	
CRD\$K_LOAD_START_COM	Literal	154	
CRD\$K_LOAD_SUP_FILE	Literal	154	
CRD\$K_MM_INTERNAL_ERROR	Literal	154	
CRD\$K_NEW_LINE	Literal	154	
CRD\$K_NUMB_DISPATCH_VECTORS	Literal	Lib03	492
CRD\$K_NUMB_UNUSED_VECTORS	Literal	Lib03	492
CRD\$K_PREPARATION_ERROR	Literal	154	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	154	
CRD\$K_RUNTIME	Literal	154	
CRD\$K_SAME_LINE	Literal	154	
CRD\$K_SET_EVENT_ARGS	Literal	154	
CRD\$K_SET_FLAGS_ARGS	Literal	154	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	154	
CRD\$K_START	Literal	154	
CRD\$K_START_AUTOSIZER	Literal	154	
CRD\$K_START_ERROR	Literal	154	
CRD\$K_START_QUALIFIERS	Literal	154	
CRD\$K_STAR_LINE	Literal	154	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	154	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	154	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	154	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	154	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	154	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	154	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	154	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	154	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	154	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	154	
CRD\$K_STATE_DUMMY_1	Literal	154	
CRD\$K_STATE_DUMMY_10	Literal	154	

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine H 1
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame H1 Sequence 1037
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 40 (5)

Symbol	Type	Defined	Referenced	...
CRD\$K_STATE_DUMMY_12	Literal	154		
CRD\$K_STATE_DUMMY_13	Literal	154		
CRD\$K_STATE_DUMMY_2	Literal	154		
CRD\$K_STATE_DUMMY_3	Literal	154		
CRD\$K_STATE_DUMMY_4	Literal	154		
CRD\$K_STATE_DUMMY_6	Literal	154		
CRD\$K_STATE_DUMMY_7	Literal	154		
CRD\$K_STATE_DUMMY_8	Literal	154		
CRD\$K_STATE_EXIT_CRD	Literal	154		
CRD\$K_STATE_INTERNAL_ERROR	Literal	154		
CRD\$K_STATE_LAST_STATE	Literal	154		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	154		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	154		
CRD\$K_STATE_LOAD_ERROR	Literal	154		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	154		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	154		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	154		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	154		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	154		
CRD\$K_STATE_LOAD_START_COM	Literal	154		
CRD\$K_STATE_PREPARATION_ERROR	Literal	154		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	154		
CRD\$K_STATE_START	Literal	154		
CRD\$K_STATE_START_AUTOSIZER	Literal	154		
CRD\$K_STATE_START_ERROR	Literal	154		
CRD\$K_TERMCHAR_SIZE	Literal	Lib03 592	953	
CRD\$K_TEST_START_TEXT	Literal	154		
CRD\$K_TOTAL_NUMB_VECTORS	Literal	Lib03 179	492	501
CRD\$K_TQ_INTERNAL_ERROR	Literal	154		
CRD\$K_TYPECODE	Literal	154		
CRD\$K_UDA_0_EVDLB	Literal	154		
CRD\$K_UDA_0_EVDLC	Literal	154		
CRD\$K_UDA_0_EVDLD	Literal	154		
CRD\$K_UDA_0_EVRLA_0	Literal	154		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	154		
CRD\$K_UDA_1_EVDLB	Literal	154		
CRD\$K_UDA_1_EVDLC	Literal	154		
CRD\$K_UDA_1_EVDLD	Literal	154		
CRD\$K_UDA_1_EVRLA_0	Literal	154		
CRD\$K_UDA_1_EVRLA_1	Literal	154		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	154		
CRD\$K_UDA_2_EVDLB	Literal	154		
CRD\$K_UDA_2_EVDLC	Literal	154		
CRD\$K_UDA_2_EVDLD	Literal	154		
CRD\$K_UDA_2_EVRLA_0	Literal	154		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	154		
CRD\$K_UDA_3_EVDLB	Literal	154		
CRD\$K_UDA_3_EVDLC	Literal	154		
CRD\$K_UDA_3_EVDLD	Literal	154		
CRD\$K_UDA_3_EVRLA_0	Literal	154		
CRD\$K_UDA_3_EVRLA_1	Literal	154		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	154		
CRD\$PRINT	External	Lib03 225ac	227ac 238ac 243ac 248ac 254ac 255ac 260ac 265ac 270ac	

Symbol	Type	Defined	Referenced	...
		284ac	289ac	294ac
		628ac	635ac	645ac
		882ac	883ac	884ac
		1068ac	888ac	910ac
CRD\$PRINT_DDB	ExtRout	Lib03	430c	
CRD\$SCREEN_PAUSE	GlobRout	918 Lib03e	150f	467c
CRD\$STOP	GlobRout	184 Lib03e	144f	554c
CRD_ASSERT	Macro	Lib03	490	
CRD_DISPATCH_VECTORS	Bind	209	503=	
DDB\$B_STATUS_DDB_SIZE	Macro	Lib03	427	
DDB\$V_STATUS_DEVICE_BAD	Macro	Lib03	319	709
DDB\$V_STATUS_DEV_TEST_COMPLETE	Macro	Lib03	707	
DDB\$V_STATUS_ESSENTIAL_DEVICE	Macro	Lib03	708	
DDB\$V_STATUS_PREPARATION_ERROR	Macro	Lib03	710	
DDB_FAIL	Register	702	719=	731.
DDB_INC_PREP	Register	705	726=	731.
DDB_OTHER	Register	703	736=	746=
DDB_PASS	Register	704	731=	745=
DDB_PTR	Register	307	315=	319a.
	Register	411	418=	427a.
	Register	598	654=	707a.
		898a.	902.	
DEVICE_DATA_BLOCK_STRUCTURE	Structur	Lib03	300	307
DEVICE_NAME	Bind	326	353.	354.
DEV_NAME	Register	596	793=	803=
DIAG_SUPPORT_VECTOR	Bind	798	803.	883.
DIAG_VECTOR_PTR	Bind	322	326.	804.
DS\$ASKSTR	ExtRout	1031	1031c	
DS\$BREAK	ExtRout	1031	1031c	1031e
DS\$GETTERM	ExtRout	610	610c	963e
DS\$K_PRINTB	Literal	225		963c
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		
	Literal	270		
	Literal	284		
	Literal	289		
	Literal	294		
	Literal	368		
	Literal	375		
	Literal	377		
	Literal	381		
	Literal	382		
	Literal	398		
	Literal	454		
	Literal	628		
	Literal	635		
	Literal	645		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine				J 1	19-Sep-1985	Fiche 6	Frame J1	Sequence 1039
CRDSTOP *** CRDSTOP Module				19-Sep-1985 17:06:59	VAX-11 Bliss-32 V4.1-746	Page 42		
V01.20 CRD\$Screen_Pause Routine				23-Jul-1985 10:46:05	[DS.CRD.V020]CRDSTOP.B32;1	(5)		
Symbol	Type	Defined	Referenced	...				

Literal	648							
Literal	650							
Literal	651							
Literal	666							
Literal	873							
Literal	880							
Literal	881							
Literal	882							
Literal	883							
Literal	884							
Literal	888							
Literal	910							
Literal	986							
Literal	1027							
Literal	1041							
Literal	1041							
Literal	1045							
Literal	1057							
Literal	1068							
DS\$K_PRINTF	Literal	225	225					
Literal	227	227						
Literal	238	238						
Literal	243	243						
Literal	248	248						
Literal	254	254						
Literal	255	255						
Literal	260	260						
Literal	265	265						
Literal	270	270						
Literal	284	284						
Literal	289	289						
Literal	294	294						
Literal	368	368						
Literal	375	375						
Literal	377	377						
Literal	381	381						
Literal	382	382						
Literal	398	398						
Literal	454	454						
Literal	628	628						
Literal	635	635						
Literal	645	645						
Literal	648	648						
Literal	650	650						
Literal	651	651						
Literal	666	666						
Literal	873	873						
Literal	880	880						
Literal	881	881						
Literal	882	882						
Literal	883	883						
Literal	884	884						
Literal	888	888						

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Symbol	Type	Defined	Referenced ...
	Literal	910	910
	Literal	986	986
	Literal	1027	1027
	Literal	1041	1041
	Literal	1041	1041
	Literal	1045	1045
	Literal	1057	1057
	Literal	1068	1068
DS\$K_PRINTI	Literal		225
	Literal	227	
	Literal	238	
	Literal	243	
	Literal	248	
	Literal	254	
	Literal	255	
	Literal	260	
	Literal	265	
	Literal	270	
	Literal	284	
	Literal	289	
	Literal	294	
	Literal	368	
	Literal	375	
	Literal	377	
	Literal	381	
	Literal	382	
	Literal	398	
	Literal	454	
	Literal	628	
	Literal	635	
	Literal	645	
	Literal	648	
	Literal	650	
	Literal	651	
	Literal	666	
	Literal	873	
	Literal	880	
	Literal	881	
	Literal	882	
	Literal	883	
	Literal	884	
	Literal	888	
	Literal	910	
	Literal	986	
	Literal	1027	
	Literal	1041	
	Literal	1041	
	Literal	1045	
	Literal	1057	
	Literal	1068	
DS\$K_PRINTX	Literal		225
	Literal	227	
	Literal	238	

Symbol

Type

Defined

Referenced ...

Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ABORT_PROGRAM	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		

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ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine M 1
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame M1 Sequence 1042
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 (5) Page 45

Symbol Type Defined Referenced ...

Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ABORT_TEST	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		

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Symbol	Type	Defined	Referenced	...

	Literal	1027		
	Literal	1041		
	Literal	1041		
	Literal	1045		
	Literal	1057		
	Literal	1068		
DS\$K_TYPE_COMMAND_OUT	Literal	225		
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		
	Literal	270		
	Literal	284		
	Literal	289		
	Literal	294		
	Literal	368		
	Literal	375		
	Literal	377		
	Literal	381		
	Literal	382		
	Literal	398		
	Literal	454		
	Literal	628		
	Literal	635		
	Literal	645		
	Literal	648		
	Literal	650		
	Literal	651		
	Literal	666		
	Literal	873		
	Literal	880		
	Literal	881		
	Literal	882		
	Literal	883		
	Literal	884		
	Literal	888		
	Literal	910		
	Literal	986		
	Literal	1027		
	Literal	1041		
	Literal	1041		
	Literal	1045		
	Literal	1057		
	Literal	1068		
DS\$K_TYPE_CRD_AUTOTEST	Literal	225	225	
	Literal	227	227	
	Literal	238	238	
	Literal	243	243	
	Literal	248	248	

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine C 2
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame C2 Sequence 1045
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 48
 (5)

Symbol Type Defined Referenced ...

Literal	254	254	
Literal	255	255	
Literal	260	260	
Literal	265	265	
Literal	270	270	
Literal	284	284	
Literal	289	289	
Literal	294	294	
Literal	368	368	
Literal	375	375	
Literal	377	377	
Literal	381	381	
Literal	382	382	
Literal	398	398	
Literal	454	454	
Literal	628	628	
Literal	635	635	
Literal	645	645	
Literal	648	648	
Literal	650	650	
Literal	651	651	
Literal	666	666	
Literal	873	873	
Literal	880	880	
Literal	881	881	
Literal	882	882	
Literal	883	883	
Literal	884	884	
Literal	888	888	
Literal	910	910	
Literal	986	986	
Literal	1027	1027	
Literal	1041	1041	
Literal	1041	1041	
Literal	1045	1045	
Literal	1057	1057	
Literal	1068	1068	
DS\$K_TYPE_DS_PROMPT	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine D 2
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame D2 Sequence 1046
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 49 (5)

Symbol Type Defined Referenced ...

Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_DS_START	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine E 2
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bli-s-32 V4.1-746 19-Sep-1985 Fiche 6 Frame E2 Sequence 1047
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 50 (5)

Symbol Type Defined Referenced ...

Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ERRDEV	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine F 2
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame F2 Sequence 1048
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 51 (5)

Symbol ----- Type Defined Referenced ...

Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ERRHARD	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ERROR_BODY	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 (5)

G 2

19-Sep-1985

Fiche 6 Frame G2

Sequence 1049

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Symbol Type Defined Referenced ...

Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_ERROR_END	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		

ZZ-ENSAB-2.0	CRD\$Screen_Pause Routine	H 2		
CRDSTOP *** CRDSTOP Module	19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746	19-Sep-1985	Fiche 6	Frame H2
V01.20 CRD\$Screen_Pause Routine	23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1	Page 53		Sequence 1050

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K TYPE ERRPREP	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		

ZZ-ENSAB-2.0	CRD\$Screen_Pause Routine	I 2	19-Sep-1985	Fiche 6	Frame 12	Sequence 1051
CRDSTOP ***	CRDSTOP Module	19-Sep-1985 17:06:59	VAX-11 Bliss-32 V4.1-746	Page 54		
V01.20	CRD\$Screen_Pause Routine	23-Jul-1985 10:46:05	(DS.CRD.V020)CRDSTOP.B32;1	(5)		

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

Literal	881			
Literal	882			
Literal	883			
Literal	884			
Literal	888			
Literal	910			
Literal	986			
Literal	1027			
Literal	1041			
Literal	1041			
Literal	1045			
Literal	1057			
Literal	1068			
DS\$K TYPE_ERRSOFT	Literal	225		
Literal	227			
Literal	238			
Literal	243			
Literal	248			
Literal	254			
Literal	255			
Literal	260			
Literal	265			
Literal	270			
Literal	284			
Literal	289			
Literal	294			
Literal	368			
Literal	375			
Literal	377			
Literal	381			
Literal	382			
Literal	398			
Literal	454			
Literal	628			
Literal	635			
Literal	645			
Literal	648			
Literal	650			
Literal	651			
Literal	666			
Literal	873			
Literal	880			
Literal	881			
Literal	882			
Literal	883			
Literal	884			
Literal	888			
Literal	910			
Literal	986			
Literal	1027			
Literal	1041			
Literal	1041			
Literal	1045			

Symbol

Type

Defined

Referenced ...

	Literal	1057		
	Literal	1068		
DS\$K	TYPE_ERRSUP	Literal	225	
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		
	Literal	270		
	Literal	284		
	Literal	289		
	Literal	294		
	Literal	368		
	Literal	375		
	Literal	377		
	Literal	381		
	Literal	382		
	Literal	398		
	Literal	454		
	Literal	628		
	Literal	635		
	Literal	645		
	Literal	648		
	Literal	650		
	Literal	651		
	Literal	666		
	Literal	873		
	Literal	880		
	Literal	881		
	Literal	882		
	Literal	883		
	Literal	884		
	Literal	888		
	Literal	910		
	Literal	986		
	Literal	1027		
	Literal	1041		
	Literal	1041		
	Literal	1045		
	Literal	1057		
	Literal	1068		
DS\$K	TYPE_ERRSYS	Literal	225	
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		

Symbol	Type	Defined	Referenced ...
Literal		270	
Literal		284	
Literal		289	
Literal		294	
Literal		368	
Literal		375	
Literal		377	
Literal		381	
Literal		382	
Literal		398	
Literal		454	
Literal		628	
Literal		635	
Literal		645	
Literal		648	
Literal		650	
Literal		651	
Literal		666	
Literal		873	
Literal		880	
Literal		881	
Literal		882	
Literal		883	
Literal		884	
Literal		888	
Literal		910	
Literal		986	
Literal		1027	
Literal		1041	
Literal		1041	
Literal		1045	
Literal		1057	
Literal		1068	
DS\$K_TYPE_ERR_HALT	Literal	225	
Literal		227	
Literal		238	
Literal		243	
Literal		248	
Literal		254	
Literal		255	
Literal		260	
Literal		265	
Literal		270	
Literal		284	
Literal		289	
Literal		294	
Literal		368	
Literal		375	
Literal		377	
Literal		381	
Literal		382	
Literal		398	
Literal		454	

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine

CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 Page 57

V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 (DS.CRD.V020)CRDSTOP.B32;1 (5)

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

	Literal	628		
	Literal	635		
	Literal	645		
	Literal	648		
	Literal	650		
	Literal	651		
	Literal	666		
	Literal	873		
	Literal	880		
	Literal	881		
	Literal	882		
	Literal	883		
	Literal	884		
	Literal	888		
	Literal	910		
	Literal	986		
	Literal	1027		
	Literal	1041		
	Literal	1041		
	Literal	1045		
	Literal	1057		
	Literal	1068		
DS\$K	TYPE EXCEPTION		Literal	225
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		
	Literal	270		
	Literal	284		
	Literal	289		
	Literal	294		
	Literal	368		
	Literal	375		
	Literal	377		
	Literal	381		
	Literal	382		
	Literal	398		
	Literal	454		
	Literal	628		
	Literal	635		
	Literal	645		
	Literal	648		
	Literal	650		
	Literal	651		
	Literal	666		
	Literal	873		
	Literal	880		
	Literal	881		
	Literal	882		

S,

D

Symbol

Type Defined Referenced ...

DS\$K_TYPE_FIRST_PASS

Literal

225

Literal 227

Literal 238

Literal 243

Literal 248

Literal 254

Literal 255

Literal 260

Literal 265

Literal 270

Literal 284

Literal 289

Literal 294

Literal 368

Literal 375

Literal 377

Literal 381

Literal 382

Literal 398

Literal 454

Literal 628

Literal 635

Literal 645

Literal 648

Literal 650

Literal 651

Literal 666

Literal 873

Literal 880

Literal 881

Literal 882

Literal 883

Literal 884

Literal 888

Literal 910

Literal 986

Literal 1027

Literal 1041

Literal 1041

Literal 1045

Literal 1057

Literal 1068

DS\$K_TYPE_GENERAL

Literal

225

Literal 227

Literal 238

Literal 243

Literal 248

Literal 254

Literal 255

Literal 260

Literal 265

Literal 270

Literal 284

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine B 3
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame B3 Sequence 1057
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 60 (5)

Symbol Type Defined Referenced ...

Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_GENERAL_ERROR	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		

Symbol Type Defined Referenced ...

Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_NO_TESTS	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine D 3
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame D3 Sequence 1059
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 62 (5)

Symbol Type Defined Referenced ...

	Literal	888	
	Literal	910	
	Literal	986	
	Literal	1027	
	Literal	1041	
	Literal	1041	
	Literal	1045	
	Literal	1057	
	Literal	1068	
DS\$K	TYPE_PARAM_ERROR	Literal	225
	Literal	227	
	Literal	238	
	Literal	243	
	Literal	248	
	Literal	254	
	Literal	255	
	Literal	260	
	Literal	265	
	Literal	270	
	Literal	284	
	Literal	289	
	Literal	294	
	Literal	368	
	Literal	375	
	Literal	377	
	Literal	381	
	Literal	382	
	Literal	398	
	Literal	454	
	Literal	628	
	Literal	635	
	Literal	645	
	Literal	648	
	Literal	650	
	Literal	651	
	Literal	666	
	Literal	873	
	Literal	880	
	Literal	881	
	Literal	882	
	Literal	883	
	Literal	884	
	Literal	888	
	Literal	910	
	Literal	986	
	Literal	1027	
	Literal	1041	
	Literal	1041	
	Literal	1045	
	Literal	1057	
	Literal	1068	
DS\$K	TYPE_PROGRAM_END	Literal	225
	Literal	227	

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine E 3
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame E3 Sequence 1060
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 63 (5)

Symbol Type Defined Referenced ...

Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K	TYPE	PROGRAM	INFO
Literal	227	Literal	225
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		

Symbol	Type	Defined	Referenced	...
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Literal	368			
Literal	375			
Literal	377			
Literal	381			
Literal	382			
Literal	398			
Literal	454			
Literal	628			
Literal	635			
Literal	645			
Literal	648			
Literal	650			
Literal	651			
Literal	666			
Literal	873			
Literal	880			
Literal	881			
Literal	882			
Literal	883			
Literal	884			
Literal	888			
Literal	910			
Literal	986			
Literal	1027			
Literal	1041			
Literal	1041			
Literal	1045			
Literal	1057			
Literal	1068			
DS\$K	TYPE	PROGRAM	START	Literal 225
Literal	227			
Literal	238			
Literal	243			
Literal	248			
Literal	254			
Literal	255			
Literal	260			
Literal	265			
Literal	270			
Literal	284			
Literal	289			
Literal	294			
Literal	368			
Literal	375			
Literal	377			
Literal	381			
Literal	382			
Literal	398			
Literal	454			
Literal	628			
Literal	635			
Literal	645			
Literal	648			

Symbol Type Defined Referenced ...

Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_QIO_INVADP	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine H 3
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame H3 Sequence 1063
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 66 (5)

Symbol ----- Type Defined Referenced ...

Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_QIO_NODRIVER	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_QIO_WRONGVER	Literal	225	
Literal	227		
Literal	238		
Literal	243		

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine I 3
 CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame 13 Sequence 1064
 V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 67 (5)

Symbol Type Defined Referenced ...

Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_SCRIPT_ECHO	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		

Symbol

Type Defined Referenced ...

Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K TYPE SCRIPT PNF	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		

Symbol	Type	Defined	Referenced	...
Literal		666		
Literal		873		
Literal		880		
Literal		881		
Literal		882		
Literal		883		
Literal		884		
Literal		888		
Literal		910		
Literal		986		
Literal		1027		
Literal		1041		
Literal		1041		
Literal		1045		
Literal		1057		
Literal		1068		
DS\$K_TYPE_SCRIPT_PROMPT	Literal	225		
Literal		227		
Literal		238		
Literal		243		
Literal		248		
Literal		254		
Literal		255		
Literal		260		
Literal		265		
Literal		270		
Literal		284		
Literal		289		
Literal		294		
Literal		368		
Literal		375		
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Literal		382		
Literal		398		
Literal		454		
Literal		628		
Literal		635		
Literal		645		
Literal		648		
Literal		650		
Literal		651		
Literal		666		
Literal		873		
Literal		880		
Literal		881		
Literal		882		
Literal		883		
Literal		884		
Literal		888		
Literal		910		
Literal		986		
Literal		1027		

Symbol	Type	Defined	Referenced	...
Literal		1041		
Literal		1041		
Literal		1045		
Literal		1057		
Literal		1068		
DS\$K_TYPE_SCRIPT_SKIP	Literal	225		
Literal		227		
Literal		238		
Literal		243		
Literal		248		
Literal		254		
Literal		255		
Literal		260		
Literal		265		
Literal		270		
Literal		284		
Literal		289		
Literal		294		
Literal		368		
Literal		375		
Literal		377		
Literal		381		
Literal		382		
Literal		398		
Literal		454		
Literal		628		
Literal		635		
Literal		645		
Literal		648		
Literal		650		
Literal		651		
Literal		666		
Literal		873		
Literal		880		
Literal		881		
Literal		882		
Literal		883		
Literal		884		
Literal		888		
Literal		910		
Literal		986		
Literal		1027		
Literal		1041		
Literal		1041		
Literal		1045		
Literal		1057		
Literal		1068		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	225		
Literal		227		
Literal		238		
Literal		243		
Literal		248		
Literal		254		

Symbol	Type	Defined	Referenced	...
Literal		255		
Literal		260		
Literal		265		
Literal		270		
Literal		284		
Literal		289		
Literal		294		
Literal		368		
Literal		375		
Literal		377		
Literal		381		
Literal		382		
Literal		398		
Literal		454		
Literal		628		
Literal		635		
Literal		645		
Literal		648		
Literal		650		
Literal		651		
Literal		666		
Literal		873		
Literal		880		
Literal		881		
Literal		882		
Literal		883		
Literal		884		
Literal		888		
Literal		910		
Literal		986		
Literal		1027		
Literal		1041		
Literal		1041		
Literal		1045		
Literal		1057		
Literal		1068		
DS\$K_TYPE_START_ERR	Literal	225		
Literal		227		
Literal		238		
Literal		243		
Literal		248		
Literal		254		
Literal		255		
Literal		260		
Literal		265		
Literal		270		
Literal		284		
Literal		289		
Literal		294		
Literal		368		
Literal		375		
Literal		377		
Literal		381		

SymbolType Defined Referenced ...

Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K	TYPE	START	LIST
Literal			225
Literal			227
Literal			238
Literal			243
Literal			248
Literal			254
Literal			255
Literal			260
Literal			265
Literal			270
Literal			284
Literal			289
Literal			294
Literal			368
Literal			375
Literal			377
Literal			381
Literal			382
Literal			398
Literal			454
Literal			628
Literal			635
Literal			645
Literal			648
Literal			650
Literal			651
Literal			666
Literal			873

Symbol Type Defined Referenced ...

Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		
Literal	1045		
Literal	1057		
Literal	1068		
DS\$K_TYPE_SUMMARY	Literal	225	
Literal	227		
Literal	238		
Literal	243		
Literal	248		
Literal	254		
Literal	255		
Literal	260		
Literal	265		
Literal	270		
Literal	284		
Literal	289		
Literal	294		
Literal	368		
Literal	375		
Literal	377		
Literal	381		
Literal	382		
Literal	398		
Literal	454		
Literal	628		
Literal	635		
Literal	645		
Literal	648		
Literal	650		
Literal	651		
Literal	666		
Literal	873		
Literal	880		
Literal	881		
Literal	882		
Literal	883		
Literal	884		
Literal	888		
Literal	910		
Literal	986		
Literal	1027		
Literal	1041		
Literal	1041		

Symbol	Type	Defined	Referenced	...

	Literal	1045		
	Literal	1057		
	Literal	1068		
DS\$K_TYPE_USER_PROMPT	Literal	225		
	Literal	227		
	Literal	238		
	Literal	243		
	Literal	248		
	Literal	254		
	Literal	255		
	Literal	260		
	Literal	265		
	Literal	270		
	Literal	284		
	Literal	289		
	Literal	294		
	Literal	368		
	Literal	375		
	Literal	377		
	Literal	381		
	Literal	382		
	Literal	398		
	Literal	454		
	Literal	628		
	Literal	635		
	Literal	645		
	Literal	648		
	Literal	650		
	Literal	651		
	Literal	666		
	Literal	873		
	Literal	880		
	Literal	881		
	Literal	882		
	Literal	883		
	Literal	884		
	Literal	888		
	Literal	910		
	Literal	986		
	Literal	1027		
	Literal	1041		
	Literal	1041		
	Literal	1045		
	Literal	1057		
	Literal	1068		
DSA\$AL_APTMAIL	Bind	155	155	
DSA\$GL_APTCOM	Bind	155		
DSA\$GL_DEVLEN	Bind	155		
DSA\$GL_DEVNAM	Bind	155		
DSA\$GL_ERRNO	Bind	155		
DSA\$GL_EVENT	Bind	155		
DSA\$GL_FLAGS	Bind	155	374 386 407 443 447 454 460 514 515 516	
		517 1006 1007 1010 1011 1049 1050		

Symbol	Type	Defined	Referenced	...
DSA\$GL_MSGPTR	Bind	155		
DSA\$GL_MSGTYP	Bind	155		
DSA\$GL_PASSES	Bind	155		
DSA\$GL_PASSNO	Bind	155		
DSA\$GL_SECTNO	Bind	155		
DSA\$GL_SID	Bind	155		
DSA\$GL_SUBTNO	Bind	155		
DSA\$GL_TESTNO	Bind	155		
DSA\$GL_UNITS	Bind	155		
DSA\$V_BINARY	Macro	Lib02 517		
DSA\$V_CRD_AUTOTEST_OFF	Macro	Lib02 386	407	460 514
DSA\$V_CRD_MENUTEST_OFF	Macro	Lib02 374	443	515
DSA\$V_CRD_MENUTEST_ON	Macro	Lib02 447	516	
DSA\$V_OPER	Macro	Lib02 1007	1011	1050
DSA\$V_PROMPT	Macro	Lib02 1006	1010	1049
DSR\$CHECK_AUTOTEST_OFF_SET	BindRout	216	218c	
DSR\$CHECK_MENUTEST_OFF_SET	BindRout	215	220c	
ESSENTIAL_DEVICE	Register	700	708= 743.	746.
EXIT_ADDRESS	Local	485	487= 506ac	
FALSE	Literal	Lib03 176	228 587	590 591 736 744 745 762 1004
FINISHED	Register	701	707= 719.	
GENERIC_DEV_NAME	Local	800	804= 848a.	
GET1ST	Macro	Lib04 154	156 225	227 238 243 248 254 255 260
		265 270 284	289 294 368 375 377 381 382	
		398 454 628	635 645 648 650 651 666 873	
		880 881 882	883 884 888 910 986 1027 1041	
		1045 1057 1068		
GET2ND	Unbound	154	156 225	227 238 243 248 254 255 260
		265 270 284	289 294 368 375 377 381 382	
		398 454 628	635 645 648 650 651 666 873	
		880 881 882	883 884 888 910 986 1027 1041	
		1045 1057 1068		
HARDWARE_SUPPORT_VECTOR	Structur	Lib03 323	798	
HDWR_NAME_PTR	Register	595	786= 813= 817=	821= 825= 829= 833= 837= 841= 844=
HP\$K_LENGTH	Literal	Lib02 600		
HP\$T_TYPE	Field	Lib02 786a		
HS\$K_ACTION-ADVANCE_DIAGNOSTIC	Literal	154		
HS\$K_ACTION-ADVANCE_GENERAL_COM	Literal	154		
HS\$K_ACTION-ADVANCE_STATE	Literal	154		
HS\$K_ACTION-CHANGE_TABLE	Literal	154		
HS\$K_ACTION-DIAGNOSTIC_ERROR	Literal	154		
HS\$K_ACTION-DONE_GENERAL_COMS	Literal	154		
HS\$K_ACTION-DO_NOTHING	Literal	154		
HS\$K_ACTION-DUMMY_3	Literal	154		
HS\$K_ACTION-DUMMY_4	Literal	154		
HS\$K_ACTION-DUMMY_5	Literal	154		
HS\$K_ACTION-DUMMY_6	Literal	154		
HS\$K_ACTION-INIT_HS	Literal	154		
HS\$K_ACTION-INTERNAL_ERROR	Literal	154		
HS\$K_ACTION-LAST_ACTION	Literal	154		
HS\$K_ACTION-LOAD_ERROR	Literal	154		

Symbol	Type	Defined	Referenced	...
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HS\$K_ACTION_LOAD_GENERAL_COM	Literal	154		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	154		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	154		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	154		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	154		
HS\$K_ACTION_LOAD_START_COM	Literal	154		
HS\$K_ACTION_PREPARATION_ERROR	Literal	154		
HS\$K_ACTION_START_ERROR	Literal	154		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	154		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	154		
HS\$K_STATE_CHANGE_TABLE	Literal	154		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	154		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	154		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	154		
HS\$K_STATE_DUMMY_1	Literal	154		
HS\$K_STATE_DUMMY_2	Literal	154		
HS\$K_STATE_DUMMY_3	Literal	154		
HS\$K_STATE_DUMMY_4	Literal	154		
HS\$K_STATE_DUMMY_6	Literal	154		
HS\$K_STATE_INIT_HS	Literal	154		
HS\$K_STATE_INTERNAL_ERROR	Literal	154		
HS\$K_STATE_LAST_STATE	Literal	154		
HS\$K_STATE_LOAD_ERROR	Literal	154		
HS\$K_STATE_LOAD_GENERAL_COM	Literal	154		
HS\$K_STATE_LOAD_LOAD_COM	Literal	154		
HS\$K_STATE_LOAD_SELECT_COM	Literal	154		
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	154		
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	154		
HS\$K_STATE_LOAD_START_COM	Literal	154		
HS\$K_STATE_PREPARATION_ERROR	Literal	154		
HS\$K_STATE_START_ERROR	Literal	154		
I	Local	638	643.	663. 760. 867. 886. 907.
J	Local	806	809.	
JSB_BEGIN	Linkage	Lib03	523	
JSB_NONE	Linkage	Lib01	215 216 506	
LOCAL_OPERINPUT_BUFFER	Local	952	1031a	1038.
MEN\$GT_INVOPERINPUT	External	Lib03	1041a	
MEN\$GT_MENFUNCSUP_FILE	External	Lib03	238a	243a
MEN\$GT_OPERATOR_ABORT	External	Lib03	284a	
MEN\$GT_OPERATOR_STOP	External	Lib03	270a	
MEN\$GT_PRESS_RETURN_TM	External	Lib03	1019a	
MEN\$GT_SUPPORT_FILE_LOAD_ERR	External	Lib03	243a	
MEN\$GT_SUPPORT_FILE_NOT_FOUND	External	Lib03	238a	
MEN\$GT_TM_MSG	External	Lib03	1021a	
MEN\$K_HS_STATE_TABLE	Literal	154		
MEN\$K_MM_STATE_TABLE	Literal	154		
MEN\$K_OPERINPUT_BUFFER_SIZE	Literal	Lib03	952	
MEN\$K_SUPBLK_SIZE	Literal	Lib03	599	
MEN\$K_TQ_STATE_TABLE	Literal	154		
MEN\$MENU_CLEANUP	ExtRout	Lib03	445c	449c
MENUSK_EXIT_AUTOSIZER_ERROR	Literal	154	372	
MENUSK_EXIT_INTERNAL_ERROR	Literal	154	251	
MENUSK_EXIT_LAST_REASON	Literal	154		

Symbol	Type	Defined	Referenced ...
MENU\$K_EXIT_OPERATOR_ABORT	Literal	154	273
MENU\$K_EXIT_OPERATOR_STOP	Literal	154	268
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	154	241
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	154	236
MM\$K_ACTION_ADVANCE_STATE	Literal	154	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	154	
MM\$K_ACTION_BUILD_DDBS	Literal	154	
MM\$K_ACTION_BUILD_HSTS	Literal	154	
MM\$K_ACTION_CHANGE_TABLE	Literal	154	
MM\$K_ACTION_DONE_INITS	Literal	154	
MM\$K_ACTION_DO_NOTHING	Literal	154	
MM\$K_ACTION_DUMMY_3	Literal	154	
MM\$K_ACTION_DUMMY_4	Literal	154	
MM\$K_ACTION_DUMMY_5	Literal	154	
MM\$K_ACTION_DUMMY_6	Literal	154	
MM\$K_ACTION_DUMMY_7	Literal	154	
MM\$K_ACTION_DUMMY_8	Literal	154	
MM\$K_ACTION_INTERNAL_ERROR	Literal	154	
MM\$K_ACTION_LAST_ACTION	Literal	154	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	154	
MM\$K_ACTION_MENU_PROMPT	Literal	154	
MM\$K_ACTION_PRINT_MENU	Literal	154	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	154	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	154	
MM\$K_ACTION_START_AUTOSIZER	Literal	154	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	154	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	154	
MM\$K_STATE_BUILD_DDBS	Literal	154	
MM\$K_STATE_BUILD_HSTS	Literal	154	
MM\$K_STATE_CHANGE_TABLE	Literal	154	
MM\$K_STATE_DONE_INITS	Literal	154	
MM\$K_STATE_DUMMY_1	Literal	154	
MM\$K_STATE_DUMMY_2	Literal	154	
MM\$K_STATE_DUMMY_3	Literal	154	
MM\$K_STATE_DUMMY_5	Literal	154	
MM\$K_STATE_DUMMY_7	Literal	154	
MM\$K_STATE_DUMMY_8	Literal	154	
MM\$K_STATE_INTERNAL_ERROR	Literal	154	
MM\$K_STATE_LAST_STATE	Literal	154	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	154	
MM\$K_STATE_MENU_PROMPT	Literal	154	
MM\$K_STATE_PRINT_MENU	Literal	154	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	154	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	154	
MM\$K_STATE_START	Literal	154	
MM\$K_STATE_START_AUTOSIZER	Literal	154	
MODNAM	Macro	Lib01	172
NEXT_PTR	Register	410	432= 437.
NUL2ND	Macro	Lib04	154 156 225 227 238 243 248 254 255 260
		265	270 284 289 294 368 375 377 381 382
		398	454 628 635 645 648 650 651 666 873
		880	881 882 883 884 888 910 986 1027 1041
		1045	1057 1068

Symbol	Type	Defined	Referenced	...
NUMB_BAD_DEVICES	Local	304	314=	329= 329. 335.
OFF	Literal Lib03	514	516	
ON	Literal Lib03	515	517	1010 1011
OPER	Register	947	1007=	1050.
PREP_ERROR	Register	698	710=	721. 726.
PRINT_EXIT_TO	Routine	212	405c	
PROMPT	Register	946	1006=	1049.
PROMPT_MSG	Local	950	1015=	1017= 1019= 1021= 1031.
PTABLE_PTR	Register	600	775=	783. 786aa 793.
SCREEN\$K_CLEAR_SCREEN	Literal	156	1055	
SCREEN\$K_COUNT_LINE	Literal	156	1061	
SCREEN\$K_PRESS_RETURN	Literal	156	996	1015
SCREEN\$K_PRESS_RETURN_MM	Literal	156	467	996 1017
SCREEN\$K_PRESS_RETURN_TM	Literal	156	997	1019
SCREEN\$K_TM_MSG	Literal	156	997	1021
SCREEN_COUNTER	Register	597	657=	667= 870. 874= 877= 877.
SCREEN_OPERATION	RoutForm	918	994.	1013.
SIZE	Local	424	427=	434.
SOME_FAIL	Local	587	587=	645. 754= 754.
SOME_INC_PREP	Local	590	590=	650. 756= 756.
SOME_OTHER	Local	591	591=	651. 758= 758. 905.
STATUS	Local	1031	1031=	1031.
STOP_REASON	RoutForm	184	234.	387. 388. 389. 390. 391. 401. 402. 403. 461.
		462.	463.	479. 480. 481.
SUPBLK_PTR	Register	599		
TEMP_DEV_NAME	Local	801	812=	816= 820= 824= 828= 832= 836= 840= 849a.
TERMCHAR\$B_TYPE	Field Lib03	619.	621.	622. 972.
TQ\$K_ACTION_ADVANCE_STATE	Literal	154		
TQ\$K_ACTION_CHANGE_TABLE	Literal	154		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	154		
TQ\$K_ACTION_DO_NOTHING	Literal	154		
TQ\$K_ACTION_DUMMY_3	Literal	154		
TQ\$K_ACTION_DUMMY_4	Literal	154		
TQ\$K_ACTION_DUMMY_5	Literal	154		
TQ\$K_ACTION_GET_DDB	Literal	154		
TQ\$K_ACTION_INIT_TQ	Literal	154		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	154		
TQ\$K_ACTION_LAST_ACTION	Literal	154		
TQ\$K_STATE_CHANGE_TABLE	Literal	154		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	154		
TQ\$K_STATE_DUMMY_1	Literal	154		
TQ\$K_STATE_DUMMY_2	Literal	154		
TQ\$K_STATE_DUMMY_3	Literal	154		
TQ\$K_STATE_DUMMY_4	Literal	154		
TQ\$K_STATE_DUMMY_5	Literal	154		
TQ\$K_STATE_GET_DDB	Literal	154		
TQ\$K_STATE_INIT_TQ	Literal	154		
TQ\$K_STATE_INTERNAL_ERROR	Literal	154		
TQ\$K_STATE_LAST_STATE	Literal	154		
TRUE	Literal Lib03	518	1009	
TT\$VT100	Literal Lib04	619	975	
TT\$VT200_SERIES	Literal Lib04	622	977	
TT\$VT52	Literal Lib04	621	974	

Symbol	Type	Defined	Referenced	...
TYPE_CLEAR_SCREEN	Local	949	974=	975= 977= 1045. 1057.
T_PROMPT_DEFAULT	Bind	956	1031a	1039.
VALID_STATUS	Local	951	1004=	1038= 1043.
VECTOR	Local	501	503.	

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]	CRDSTOP.B32;1
2	Module	CRDSTOP	
128	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]	DS.L32;17
131	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]	DIAG.L32;30
134	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]	CRD.L32;1
137	Library #4	SYS\$COMMON:[SYSLIB]	LIB.L32;2
1074	Eludom	CRDSTOP	

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	--- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	2	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	28	3	94	00:00.2
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	105	21	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2			18619	6	0 1000 00:04.2

ZZ-ENSAB-2.0 CRD\$Screen_Pause Routine I 4
CRDSTOP *** CRDSTOP Module 19-Sep-1985 17:06:59 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame 14 Sequence 1077
V01.20 CRD\$Screen_Pause Routine 23-Jul-1985 10:46:05 [DS.CRD.V020]CRDSTOP.B32;1 Page 80 (5)

; COMMAND QUALIFIERS

; BLISS CRDSTOP.B32/LIST=CRDSTOP.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDSTOP.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 2066 code + 309 data bytes

; Run Time: 01:44.7

; Elapsed Time: 03:55.7

; Lines/CPU Min: 615

; Lexemes/CPU-Min: 73406

; Memory Used: 542 pages

; Compilation Complete

```
: 0001 0 xTITLE '*** CRDTEXT Module'
: 0002 0 MODULE CRDTEXT ( ! Contains all of the CRD output ASCII text
: 0003 0 IDENT = '11'
: 0004 0 ) =
: 0005 0 ! *
: 0006 0 ! COPYRIGHT (c) 1980, 1981, 1985
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```

```

: 0024 0 | **
: 0025 0 | Facility:
: 0026 0 |
: 0027 0 | Diagnostic Supervisor (part of the CRD-Loadable image).
: 0028 0 |
: 0029 0 | Abstract:
: 0030 0 |
: 0031 0 | This module contains all of the messages (ASCII text) that get printed
: 0032 0 | by CRD-AutoTest.
: 0033 0 |
: 0034 0 | Author:
: 0035 0 |
: 0036 0 | Jack Stansbury
: 0037 0 |
: 0038 0 | Creation Date:
: 0039 0 |
: 0040 0 | May 7, 1982
: 0041 0 |
: 0042 0 | Version:
: 0043 0 |
: 0044 0 | 6.9
: 0045 0 |
: 0046 0 | Modified By:
: 0047 0 |
: 0048 0 | 01A Jack Stansbury, Version 1.0, July 9, 1982
: 0049 0 | Added the CRD$GT_Prep_Error_Spaces_FAO message string. This can be taken out
: 0050 0 | when the DS's FAO routine is fixed.
: 0051 0 | 01B John Ciukaj Jan. 1983
: 0052 0 | - Enhancements for Release 13 CRD Menu version 1.2.
: 0053 0 |
: 0054 0 | 02A Jack Stansbury, Version 1.1, July 25, 1982
: 0055 0 | Added the CRD$GT_Menu and CRD$GT_Auto strings so that the outputting messages can
: 0056 0 | be for the appropriate test name.
: 0057 0 | 02B Scott Cohen June 24, 1983 Version 1.2
: 0058 0 | For soft console support
: 0059 0 | - Added MEN$GT_End_of_List.
: 0060 0 | - MEN$GT_TM_Pause.
: 0061 0 |
: 0062 0 | 03A Jack Stansbury, Version 1.1, September 12, 1982
: 0063 0 | Added the CRD$GT_Exit_To_CLI message string.
: 0064 0 | 03B Ron Parker June 1, 1984 Version 1.5
: 0065 0 | - Bumped version number from 1.4 to 1.5
: 0066 0 |
: 0067 0 | 04A Jack Stansbury, Version 1.1, September 15, 1982
: 0068 0 | Added the CRD$GT_DS_Command_Out string for outputting the DS command when
: 0069 0 | CRD sticks one in the buffer. This happens when the DSA$V_CRD_Trace bit is set.
: 0070 0 | 04B Ron Parker October 15, 1984
: 0071 0 | - Added device prep message #7
: 0072 0 |
: 0073 0 | 05A Jack Stansbury, Version 1.1, September 24, 1982
: 0074 0 | Added the CRD$GT_Error_Complete message, which should never get printed!
: 0075 0 | 05B Ron Parker October 26, 1984
: 0076 0 | - Added VMS error message
: 0077 0 |
: 0078 0 | 06A John Ciukaj Version 1.2 8-Apr 1983

```

```

ZZ-ENSAB-2.0      *** CRDTEXT Module                                     19-Sep-1985
CRDTEXT *** CRDTEXT Module      19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746
11                4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1      (2)

```

```

: 0079 0 : - Added CRD$GT_Inv_Base_System
: 0080 0 : CRD$GT_CRD_Fatal_Error
: 0081 0 : - Replaced the 'no errors' text in CRD$GT_CRD_Incomplete
: 0082 0 : - Deleted trailingg '***' in CRD$GT_Prep_Error_Spaces
: 0083 0 :
: 0084 0 : 07A Scott Cohen Version 1.2 9-Jun-1983
: 0085 0 : For soft console support
: 0086 0 : - Added CRD$GT_Press_Return,
: 0087 0 : - CRD$GT_Clear_Screen,
: 0088 0 : - all strings output by AutoTest Summary
: 0089 0 :
: 0090 0 : 08 Ron Parker 31-OCT-1984
: 0091 0 : - Combined both ASCIC files into one.
: 0092 0 :
: 0093 0 : 09 Ron Parker 27-FEB-1985
: 0094 0 : - Changed reference to 11/730,725 to VAX-11 CRD
: 0095 0 :
: 0096 0 : 10 Amy Iorio 08-JULY-1985
: 0097 0 : - Changed wording of TESTPREP statements.
: 0098 0 :
: 0099 0 : 11 Amy Iorio 15-JULY-1985
: 0100 0 : - Deleted crd$gt_clear_screen(_vt52) in order to
: 0101 0 : put their equivalent values directly in CRDSTOP.
: 0102 0 :
: 0103 0 : 12 Amy Iorio 04-SEPT-1985
: 0104 0 : - Bumped version number to 2.
: 0105 0 :

```

[illegible]

```
; 0106 0 xSBTTL 'Libraries'
; 0107 1 BEGIN      ! Begin the CRDTEXT module
; 0108 1
; 0109 1 LIBRARY
; 0110 1 '$DS';      ! Use DS.L32 first
; 0111 1
; 0112 1 LIBRARY
; 0113 1 '$Diag';    ! Use Diag.L32 second
; 0114 1
; 0115 1 LIBRARY
; 0116 1 '$CRD';     ! Use CRD.L32 third
; 0117 1
; 0118 1 LIBRARY
; 0119 1 'Sys$Library:Lib'; ! Use Lib as last resort
; 0120 1
; 0121 1
; 0122 1
; 0123 1
; 0124 1 xSBTTL 'Included Macros and Literals'
; 0125 1
; 0126 1 $CRD_Literals; ! Define the literals for CRd
; 0127 1 $MEN_Literals; ! Define the literals for MEN
; 0128 1
; 0129 1
; 0130 1
; 0131 1
; 0132 1 xSBTTL 'Psect Definitions'
; 0133 1
; 0134 1 PSECT
; 0135 1 PLIT      = Data (NOEXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0136 1
; 0137 1 PSECT
; 0138 1 CODE      = Code ( EXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0139 1
; 0140 1 PSECT
; 0141 1 OWN       - Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0142 1
; 0143 1 PSECT
; 0144 1 GLOBAL    = Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING MODE (LONG_RELATIVE));
```


.....

```
: 0157 1 xSBTTL 'Global Bindings'
: 0158 1
: 0159 1 GLOBAL BIND
: 0160 1 !+
: 0161 1 ! These are auxilliary strings.
: 0162 1 !-
: 0163 1
: 0164 1 CRD$GT_Space_And_Space = $ASCIC (' AND '),
: 0165 1 CRD$GT_New_Line = $ASCIC ('!/''),
: 0166 1 CRD$GT_Tab = $ASCIC ('! '), ! [02]
: 0167 1 CRD$GT_Slash = $ASCIC ('/'), ! [02]
: 0168 1 CRD$GT_Unknown = $ASCIC ('????'), ! [02]
: 0169 1 CRD$GT_2_Tabs = $ASCIC ('! ! '), ! [02]
: 0170 1 ![[11] CRD$GT_Clear_Screen = $ASCIC ('[HJ)'), ! [02]
: 0171 1 ![[11] CRD$GT_Clear_Screen_VT52 = $ASCIC ('HJ)'), ! [02]
: 0172 1
: 0173 1
: 0174 1 !+ ! [02]
: 0175 1 ! These strings define the names of the two types of CRD. ! [02]
: 0176 1 !- ! [02]
: 0177 1
: 0178 1 CRD$GT_Menu = $ASCIC ('MENU'), ! [02]
: 0179 1 CRD$GT_Auto = $ASCIC ('AUTO'), ! [02]
: 0180 1
: 0181 1 !+
: 0182 1 ! These strings are always output before a diagnostic is started.
: 0183 1 !-
: 0184 1
: 0185 1 CRD$GT_Testing_Device = $ASCIC ('!//!18AC'),
: 0186 1 CRD$GT_Testing_Started = $ASCIC (' TESTING STARTED - RUN TIME ='),
: 0187 1 CRD$GT_RunTime = $ASCIC (' !4AC MINUTES'),
: 0188 1 CRD$GT_Fail = $ASCIC (' *FAILED!/''),
: 0189 1 CRD$GT_Pass = $ASCIC (' PASSED !/''),
: 0190 1
: 0191 1 !+
: 0192 1 ! These lines are output before the last two lines are output. They summarize what has happened
: 0193 1 ! and what should be done by the user.
: 0194 1 !-
: 0195 1
: 0196 1 CRD$GT_CRD_No_Errors = $ASCIC ('!//!AC TEST COMPLETE - NO ERRORS'), ![[02]
: 0197 1 CRD$GT_CRD_Errors_Complete = $ASCIC ('!//!AC TEST COMPLETE - ERRORS'), ![[05]
: 0198 1 CRD$GT_CRD_Bad_Device = $ASCIC ('!//!AC TEST INCOMPLETE - !AC BAD - CALL FIELD SERVICE'), ![[02]
: 0199 1 CRD$GT_CRD_Incomplete =
P 0200 1 $ASCIC ('!//!AC TEST INCOMPLETE - ',
: 0201 1 'IF ASSISTANCE NEEDED, CALL FIELD SERVICE'), ![[06]
P 0202 1 CRD$GT_CRD_Dev_UnTested = $ASCIC ('!//!AC TEST INCOMPLETE', ![[02]
: 0203 1 '!//CHECK DEVICE PREPARATION - IF OK, THEN CALL FIELD SERVICE'),
: 0204 1 CRD$GT_CRD_EVSBA_Error = $ASCIC ('!//!AC TEST ABORTED - CALL FIELD SERVICE'), ![[02]
: 0205 1 CRD$GT_CRD_EVSBB_Error = $ASCIC ('!//!AC TEST ABORTED - CALL FIELD SERVICE'), ![[02]
: 0206 1 CRD$GT_CRD_Fatal_Error = $ASCIC ('!//!AC TEST ABORTED - CALL FIELD SERVICE'), ![[06]
: 0207 1 CRD$GT_Internal_Error_Abort = $ASCIC ('!//!AC TEST ABORTED - CALL FIELD SERVICE'), ![[02]
: 0208 1 CRD$GT_Control_C_Abort = $ASCIC ('!//!AC TEST ABORTED - CONTROL-C TYPED AT TERMINAL'), ![[02]
: 0209 1
: 0210 1 !+
: 0211 1 ! These two messages are always output when CRD-AutoTest exits.
```

```
; 0212 1  !-
; 0213 1
; 0214 1  CRD$GT_CRD_End_Message    = $ASCIC ('!/**** END OF VAX-11 CRD !AC TEST ****'),    ![02]
; 0215 1  CRD$GT_Exit_To_Console    = $ASCIC ('!/!/RETURNING TO VAX-11 CRD CONSOLE, WAIT FOR >>> PROMPT!/'),
; 0216 1  CRD$GT_Exit_To_CLI      = $ASCIC ('!/!/RETURNING TO VAX DIAGNOSTIC SUPERVISOR COMMAND MODE!/'), ![03]
; 0217 1
; 0218 1  !+
; 0219 1  ! Soft console support messages - the operator must press return to continue
; 0220 1  !-
; 0221 1
; 0222 1  CRD$GT_Press_Return      = $ASCIC ('Press RETURN for more...'),
; 0223 1  CRD$GT_Press_Return_MM   = $ASCIC ('Press RETURN for MAIN MENU...'),
```

```

: 0224 1
: 0225 1 !*
: 0226 1 ! AUTOSIZER error messages
: 0227 1 !-
: 0228 1 CRD$GT_Inv_Base_System = $ASCIC ('!/NO SUPPORTED DISK CONTROLLER FOUND BY CRD MACRO TEST'), ![06]
: P 0229 1 CRD$GT_AutoSizer_Error = $ASCIC ('!/UNABLE TO DETERMINE DEVICES ON THE SYSTEM ',
: 0230 1 '- NO FURTHER TESTING POSSIBLE!/'),
: 0231 1 !*
: 0232 1 ! These messages are output after the TESTING STARTED message has been printed (instead of
: 0233 1 ! the 'PASSED' or 'FAILED' string). They indicate something is wrong with the current diagnostic.
: 0234 1 !-
: 0235 1
: 0236 1 CRD$GT_Dev_Unavailable = $ASCIC ('!/DEVICE NOT AVAILABLE!/'),
: 0237 1 CRD$GT_Dev_Unavailable_2 = $ASCIC ('DEVICE NOT AVAILABLE!/'),
: 0238 1 CRD$GT_Cannot_Load_Diag = $ASCIC ('!/DEVICE DIAGNOSTIC NOT FOUND!/'),
: 0239 1 CRD$GT_Start_Error = $ASCIC ('!/CANNOT CONTINUE TESTING THIS DEVICE!/'),
: 0240 1 ! CRD$GT_Prep_Error_Spaces = $ASCIC ('!/** !* !AC!*'), ![06]
: 0241 1 CRD$GT_Prep_Error_Spaces = $ASCIC ('!/*** !AC'), ![07]
: 0242 1
: 0243 1 CRD$GT_Internal_Error = $ASCIC ('!/!/THIS VERSION OF CRD !AC TEST IS CORRUPTED!/'), ![02]
: 0244 1
: 0245 1 !*
: 0246 1 ! This string is used to output a DS command that was put into the CLI command buffer. ![03]
: 0247 1 ! This is primarily used for tracing CRD. ![03]
: 0248 1 !-
: 0249 1
: 0250 1 CRD$GT_DS_Command_Out = $ASCIC ('!/*** DS Command: !60<!AD!>!/'), ![03]
: 0251 1
: 0252 1 !*
: 0253 1 ! These strings are output by the $CRD_Message macro.
: 0254 1 !-
: 0255 1
: 0256 1 CRD$GT_Same_Line_Message = $ASCIC (''),
: 0257 1 CRD$GT_New_Line_Message = $ASCIC ('!/'),
: 0258 1 CRD$GT_Star_Line_Prefix_Message = $ASCIC ('!/** '),
: 0259 1 CRD$GT_Star_Line_Suffix_Message = $ASCIC (' *'),
: 0260 1
: 0261 1 !*
: 0262 1 ! These strings are output by the Auto Test Summary.
: 0263 1 !-
: 0264 1 CRD$GT_Summary_Title =
: 0265 1 $ASCIC ('!/!/-- SUMMARY --!/'),
: 0266 1 CRD$GT_All_Failures = $ASCIC ('!/ Failed: (Hardware name/Generic name)!/'),
: 0267 1 CRD$GT_All_Passes = $ASCIC ('!/ Passed: (Hardware name/Generic name)!/'),
: 0268 1 CRD$GT_All_Inv_Hdwr_Prep =
: 0269 1 $ASCIC ('!/ Incorrect Hardware Preparation: (Hardware name/Generic name)!/'),
: 0270 1 CRD$GT_All_Others = $ASCIC ('!/ Others: (Diagnostic message)!/'),
: 0271 1 CRD$GT_Init_All_Passes = $ASCIC ('!_CPU!_!_!_MEMORY!_!_');
: 0272 1

```

```

: 0273 1 xTITLE '*** CRD MENU - Message Module'
: 0274 1 xSBTTL 'Global Bindings'
: 0275 1
: 0276 1 GLOBAL BIND
: 0277 1
: 0278 1 !*
: 0279 1 ! CRD MENU TEST Title with Version number
: 0280 1 !-
: 0281 1
: 0282 1 MEN$GT_MenuTest_Begin =
: P 0283 1 $ASCII ('!//!!19* CUSTOMER RUNNABLE DIAGNOSTIC PACKAGE',
: P 0284 1 '!!//!30* Version V020',
: P 0285 1 '!!//!!4** BEGIN VAX-11 CRD MENU TEST !4**',
: P 0286 1 '!!//Type the CTRL key and the C key (together) at!',
: P 0287 1 'any time to interrupt Menu Test processing',
: P 0288 1 '!!//!!',
: 0289 1 ),
: 0290 1
: 0291 1 MEN$GT_AutoSizer_Begin =
: 0292 1 $ASCII ('VAX-HARDWARE IDENTIFICATION - RUN TIME = 00:30 MINUTES!!//Please wait . . .!!//'),
: 0293 1
: 0294 1 MEN$GT_AutoSizer_End =
: 0295 1 $ASCII ('VAX-11 CRD HARDWARE IDENTIFICATION COMPLETE!//'),

```

```

: 0296 1
: 0297 1 !+
: 0298 1 ! Functional Test Main Menu text
: 0299 1 !-
: 0300 1
: 0301 1 MEN$GT_FTMTitle =
: 0302 1 $ASCII ('!//!27*-!/MAIN MENU - Functional Test!/!27*-'),
: 0303 1
: 0304 1 MEN$GT_FTMMenu_Selection =
: 0305 1 $ASCII ('!/ !AD = !AC'),
: 0306 1
: 0307 1 MEN$GT_FTMSEL_Exit =
: 0308 1 $ASCII ('Exit Menu Test'),
: 0309 1
: 0310 1 MEN$GT_FTMSEL_Prep =
: 0311 1 $ASCII ('Print preparation required for test of supported hardware'),
: 0312 1
: 0313 1 MEN$GT_FTMSEL_Test =
: 0314 1 $ASCII ('Select and Test hardware from TEST MENU'),
: 0315 1
: 0316 1 MEN$GT_FTMSEL_System_Hdwr =
: 0317 1 $ASCII ('Print list of identified system hardware and support status'),
: 0318 1
: 0319 1 MEN$GT_FTMSEL_FncTst_All =
: 0320 1 $ASCII ('TEST ALL Supported Hardware'),
: 0321 1
: 0322 1
: 0323 1 MEN$GT_FTM_Choice =
: 0324 1 $ASCII ('!// Type one of the above (for example, A), and press RETURN / /'),
: 0325 1
: 0326 1 MEN$GT_FTMPrompt =
: 0327 1 $ASCII (' Enter MAIN MENU choice: '),

```

```

: 0328 1
: 0329 1 !+
: 0330 1 ! TEST MENU Text
: 0331 1 !-
: 0332 1
: 0333 1 MEN$GT_TMTITLE =
: 0334 1 $ASCIC ('!//!//!9*-!/TEST MENU!/!9*-'),
: 0335 1
: 0336 1 MEN$GT_TMenu_Selection =
: 0337 1 $ASCIC ('!3<!AD!UL!> = !9AC !9AC !6AC'),
: 0338 1
: 0339 1 MEN$GT_TMenu_TstAll =
: 0340 1 $ASCIC ('!3<!AD!UL!> = TEST ALL of the above supported hardware'),
: 0341 1
: 0342 1 MEN$GT_TM_Choice =
: 0343 1 $ASCIC ('!//!// Type one of the above (for example, A1), and press RETURN to start testing!//'),
: 0344 1
: 0345 1 MEN$GT_TMPrompt =
: 0346 1 $ASCIC (' Enter TEST MENU choice: '),
: 0347 1
: 0348 1 MEN$GT_TM_Msg =
: 0349 1 $ASCIC ('*** Press RETURN for remainder of TEST MENU choices ***'),
: 0350 1
: 0351 1 MEN$GT_Press_Return_TM =
: 0352 1 $ASCIC ('Press RETURN for TEST MENU...'),

```

```

; 0353 1 !+
; 0354 1 ! Control C Menu Text
; 0355 1 !-
; 0356 1
; 0357 1 MEN$GT_CntIC_Menu_Title =
; 0358 1 $ASCII ('!/' !14*-!/' CONTROL-C MENU!/' !14*-!/''),
; 0359 1
; 0360 1 MEN$GT_CntIC_Menu_Selection =
; 0361 1 $ASCII ('!/' !AD = !AC'),
; 0362 1
; 0363 1 MEN$GT_CntIC_Sel_Exit = MEN$GT_FTMSel_Exit,
; 0364 1
; 0365 1 MEN$GT_CntIC_Sel_Continue =
; 0366 1 $ASCII ('Resume process interrupted by the CONTROL-C'),
; 0367 1
; 0368 1 MEN$GT_CntIC_Sel_FTMenu =
; 0369 1 $ASCII ('Abort the current process, and return to the MAIN MENU'),
; 0370 1
; 0371 1 MEN$GT_CntICM_Choice =
; 0372 1 $ASCII ('!/' Type one of the above (for example, A) and press RETURN!/''),
; 0373 1
; 0374 1 MEN$GT_CntIC_Menu_Prompt =
; 0375 1 $ASCII (' Enter CONTROL-C MENU choice: '),
; 0376 1
; 0377 1 MEN$GT_CntIC_Continuing =
; 0378 1 $ASCII ('!/'Resuming the interrupted process!/''),

```



```

; 0379 1
; 0380 1 !+
; 0381 1 ! Test Class Names
; 0382 1 !-
; 0383 1
; 0384 1 MEN$GT_TstCla_CPU =
; L 0385 1   UPLIT BYTE (xASCIC xSTRING
; 0386 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','CPU'))),
; 0387 1
; 0388 1 MEN$GT_TstCla_Memory =
; L 0389 1   UPLIT BYTE (xASCIC xSTRING
; 0390 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','MEMORY'))),
; 0391 1
; 0392 1 MEN$GT_TstCla_Disk =
; L 0393 1   UPLIT BYTE (xASCIC xSTRING
; 0394 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','DISK'))),
; 0395 1
; 0396 1 MEN$GT_TstCla_Tape =
; L 0397 1   UPLIT BYTE (xASCIC xSTRING
; 0398 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','TAPE'))),
; 0399 1
; 0400 1 MEN$GT_TstCla_COMM =
; L 0401 1   UPLIT BYTE (xASCIC xSTRING
; 0402 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','COMM.'))),
; 0403 1
; 0404 1 MEN$GT_TstCla_REAL =
; L 0405 1   UPLIT BYTE (xASCIC xSTRING
; 0406 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','REALTIME'))),
; 0407 1
; 0408 1 MEN$GT_TstCla_TERM =
; L 0409 1   UPLIT BYTE (xASCIC xSTRING
; 0410 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','TERMINAL'))),
; 0411 1
; 0412 1 MEN$GT_TstCla_PRINTER =
; L 0413 1   UPLIT BYTE (xASCIC xSTRING
; 0414 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','PRINTER'))),
; 0415 1
; 0416 1 MEN$GT_TstCla_CARD =
; L 0417 1   UPLIT BYTE (xASCIC xSTRING
; 0418 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','CARD'))),
; 0419 1
; 0420 1 MEN$GT_TstCla_IOADAP =
; L 0421 1   UPLIT BYTE (xASCIC xSTRING
; 0422 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ','ADAPTOR'))),
; 0423 1
; 0424 1 MEN$GT_TstCla_NullName =
; L 0425 1   UPLIT BYTE (xASCIC xSTRING
; 0426 1   (xEXACTSTRING (MEN$K_TstTxt_TstCla_Sz,xC' ',''))),
; 0427 1
; 0428 1 MEN$GT_TstCla_AI - MEN$GT_TstCla_NullName,
  
```

```

: 0429 1
: 0430 1 !*
: 0431 1 ! Print system hardware text
: 0432 1 !-
: 0433 1
: 0434 1 MEN$GT_SysHdwr_Title =
: P 0435 1 $ASCII ('!/?!8* !9<Hardware!> !8<Generic!> !9<Test Menu!>',
: P 0436 1 ' !/?!8* !9<Name!> !8<Name!> !9<Support!>',
: P 0437 1 ' !/?!8* !9*- !8*- !9*- ./'
: 0438 1 ),
: 0439 1 MEN$GT_System_Hdwr_Text =
: 0440 1 $ASCII ('!8*- !9AC !8AC !AC'),
: 0441 1
: 0442 1 MEN$GT_Supported =
: 0443 1 $ASCII ('SUPPORTED'),
: 0444 1
: 0445 1 MEN$GT_NoSupport =
: 0446 1 $ASCII ('No Support'),
: 0447 1
: 0448 1 MEN$GT_End_of_List =
: 0449 1 $ASCII ('!/?!_!_[End of list]'),

```

```
: 0450 1 xSBTTL ' Info messages'
: 0451 1
: 0452 1 !+
: 0453 1 ! Functional Testing Title
: 0454 1 !-
: 0455 1
: 0456 1 MEN$GT_CtrIC_FncTst =
P 0457 1 $ASCIC ('!//!//!4* Type the CTRL key and the C key (together)',
P 0458 1 '!//!4* at any time to interrupt Functional Testing'
: 0459 1 ),
: 0460 1
: 0461 1
: 0462 1 MEN$GT_FuncTest_Begin =
: 0463 1 $ASCIC ('!//!//!7!4* !10** BEGIN FUNCTIONAL TESTING !10**'),
: 0464 1
: 0465 1 MEN$GT_Runtime_Total =
: 0466 1 $ASCIC ('!//!//!15* RUN TIME = !2ZL:!2ZL MINUTES!//!'),
: 0467 1
: 0468 1 MEN$GT_FncTst_Cmpl_NoErr =
: 0469 1 $ASCIC ('!//!FUNCTIONAL TESTING COMPLETE - NO ERRORS'),
: 0470 1
: 0471 1 MEN$GT_FncTst_InCmpl_Err =
: 0472 1 $ASCIC ('!//!FUNCTIONAL TESTING INCOMPLETE - ERRORS'),
: 0473 1
: 0474 1 MEN$GT_FncTst_Cmpl_Err =
: 0475 1 $ASCIC ('!//!FUNCTIONAL TESTING COMPLETE - ERRORS'),
: 0476 1
: 0477 1 MEN$GT_FncTst_InCmpl_NoErr =
: 0478 1 $ASCIC ('!//!FUNCTIONAL TESTING INCOMPLETE'),
: 0479 1
: 0480 1 MEN$GT_Assistance_Msg =
: 0481 1 $ASCIC ('!//!IF ASSISTANCE IS NEEDED - CALL FIELD SERVICE'),
: 0482 1
: 0483 1 MEN$GT_MenuTest_Aborted =
: 0484 1 $ASCIC ('!//!VAX-11 CRD MENU TEST ABORTED'),
: 0485 1
: 0486 1 MEN$GT_Operator_Abort =
: 0487 1 $ASCIC ('!//!VAX-11 CRD MENU TEST ABORTED BY OPERATOR'),
: 0488 1
: 0489 1 MEN$GT_Operator_Stop =
: 0490 1 $ASCIC ('!//!VAX-11 CRD MENU TEST STOPPED BY OPERATOR'),
: 0491 1
: 0492 1 MEN$GT_FncTst_TestStrt_Text =
: 0493 1 $ASCIC ('!//!9AC !9AC !6AC TESTING STARTED - RUN TIME - !5AC MINUTES'),
: 0494 1
: 0495 1 MEN$GT_NULL -
: 0496 1 $ASCIC (''),
: 0497 1
```

ZZ-ENSAB-2.0 Warning Messages L 5
CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame L5 Sequence 1093
11 Warning Messages 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (14) Page 16

```
; 0498 1 xSBTTL ' Warning Messages'
; 0499 1
; 0500 1 MEN$GT_Call_FldSrv =
; 0501 1 $ASCII ('!/?** CALL FIELD SERVICE **'),
; 0502 1
; 0503 1 MEN$GT_InvOperInput =
; 0504 1 $ASCII ('!/?** Invalid Choice - Try Again **'),
; 0505 1
; 0506 1 MEN$GT_Failed_Hdwr_Name =
; 0507 1 $ASCII ('!/?** FAILED HARDWARE TESTING: !AC'),
; 0508 1
; 0509 1 MEN$GT_Prep_Error_Text =
; P 0510 1 $ASCII ('!/?!/?** !#* !AC !#* **',
; 0511 1 '!/?** !#* !AC - INCORRECT HARDWARE TEST PREPARATION !#* **!/'),
; 0512 1
; 0513 1 MEN$GT_Prep_Error_Text_No_User =
; 0514 1 $ASCII ('!/?!/?** !#* !AC - INCORRECT HARDWARE TEST PREPARATION !#* **!/'),
; 0515 1
; 0516 1 MEN$GT_Failed_ONL_AUTOSIZER =
; 0517 1 $ASCII ('!/?!/?** FAILED TO RUN ONLINE AUTOSIZER **!/'),
; 0518 1
; 0519 1 !*
; 0520 1 ! Scratch Media Warning
; 0521 1 !-
; 0522 1
; 0523 1 MEN$GT_ScrMedia_Msg =
; P 0524 1 $ASCII ('!/?!/?!28** WARNING !29**',
; P 0525 1 '!/?** MEDIA on the following hardware MAY BE DESTROYED **', ![[10]
; P 0526 1 '!/?!64* **',
; P 0527 1 '!/?!15* Hardware Name!10* Generic Name!14* **',
; P 0528 1 '!/?!15* -----!10* -----!14* **',
; 0529 1 ),
; 0530 1
; 0531 1 MEN$GT_ScrMedia_Hdwr =
; 0532 1 $ASCII ('!/?!15* !22<!AC.> !25<!AC!> **'),
; 0533 1
; 0534 1 MEN$GT_ScrMedia_Hdwr_End =
; 0535 1 $ASCII ('!/?!66* **'),
; 0536 1
; 0537 1 MEN$GT_ScrMedia_Prompt =
; P 0538 1 $ASCII (
; P 0539 1 xCHAR (13,10,13,10),
; P 0540 1 ' Press RETURN when the media is ready to be tested: '
; 0541 1 ),
```

ZZ-ENSAB-2.0 Error Messages M 5
CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame M5 Sequence 1094
11 Error Messages 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (15) Page 17

```
; 0542 1 xSBTTL 'Error Messages'
; 0543 1
; 0544 1 MEN$GT_NoAll_NonPgMem =
; 0545 1 $ASCII ('!/* FAILED TO ALLOCATE MEMORY **'),
; 0546 1
; 0547 1 MEN$GT_Support_File_Not_Found =
; 0548 1 $ASCII ('!/THE !AC-FILE WAS NOT FOUND!! CRD MENU TEST CANNOT CONTINUE PROCESSING'),
; 0549 1
; 0550 1 MEN$GT_Support_File_Load_Err =
; 0551 1 $ASCII ('!/THE !AC-FILE COULD NOT BE LOADED!! CRD MENU TEST CANNOT CONTINUE PROCESSING'),
```

```
: 0552 1 xSBTTL 'Hardware Test Preparation Text'
: 0553 1
: 0554 1 !+
: 0555 1 ! Device Test Preparation text
: 0556 1 !-
: 0557 1
: 0558 1 MEN$GT_DevTstPrep_Name =
: 0559 1 $ASCII ('!/' Hardware: !AD'),
: 0560 1
: 0561 1 MEN$GT_DevTstPrep_Text =
: 0562 1 $ASCII ('!/'Preparation: '),
: 0563 1
: 0564 1 MEN$GT_DevTstPrep_Null =
: 0565 1 $ASCII ('1. No Hardware test preparation required.!/''),
: 0566 1
: 0567 1 MEN$GT_DevTstPrep_1 =
P 0568 1 $ASCII ('1. Insert disk cartridge in drive (disk will not be corrupted).!/'', [[10]
P 0569 1 '!'14* 2. Push in RUN STOP or LOAD switch.!/'',
P 0570 1 '!'13* 3. Push out WRITE PROT switch (not lighted).!/'',
: 0571 1 '!'13* 4. Wait for READY indicator to light.''),
: 0572 1
: 0573 1 MEN$GT_DevTstPrep_2 =
P 0574 1 $ASCII ('1. Insert floppy diskette in drive and close door.!/'',
: 0575 1 '!'13* Current contents of diskette MAY BE DESTROYED.''), [[10]
: 0576 1
: 0577 1 MEN$GT_DevTstPrep_3 =
P 0578 1 $ASCII ('1. Mount tape on drive. Tape must have write-ring.!/'',
P 0579 1 '!'13* Current contents of tape MAY BE DESTROYED.!/'', [[10]
P 0580 1 '!'13* 2. Push in LOD or LOAD switch to load tape.!/'',
: 0581 1 '!'13* 3. Push in ONL or ONLINE switch.''),
: 0582 1
: 0583 1 MEN$GT_DevTstPrep_4 =
P 0584 1 $ASCII ('1. Push in RUN STOP switch.!/'',
P 0585 1 '!'13* 2. Push out WRITE PROT switch (not lighted).!/'',
: 0586 1 '!'13* 3. Wait for READY indicator to light.''),
: 0587 1
: 0588 1 MEN$GT_DevTstPrep_5 =
P 0589 1 $ASCII ('1. Push in LOAD switch.!/'',
P 0590 1 '!'13* 2. Push out WRITE PROT switch (not lighted).!/'',
: 0591 1 '!'13* 3. Wait for READY indicator to light.''),
: 0592 1
: 0593 1 MEN$GT_DevTstPrep_6 =
P 0594 1 $ASCII ('1. Insert removable disk in drive!/'',
P 0595 1 '!'13* 2. Push in RUN switch!/'',
P 0596 1 '!'13* 3. Push out Write Protect REMOVE and FIXED !/'',
P 0597 1 '!'13* switch (unlighted)!/'',
: 0598 1 '!'13* 4. Wait for RUN light to stop blinking'),
: 0599 1
: 0600 1 MEN$GT_DevTstPrep_7 =
: 0601 1 $ASCII ('1. Power up drive by pressing (1/0) switch to ON (1)!/''); [[10]
: 0602 1
```

```

: 0603 1 END
: 0604 0 ELUDOM

```

```
.TITLE CRDTEXT *** CRD MENU - Message Module
.IDENT \11\
```

```
.PSECT WORK,NOEXE,2
```

```
00000 CRD$GA_CRD_MESSAGE_BUFFER::
      .BLKB      132
```

```
.PSECT DATA,NOWRT,NOEXE, SHR,2
```

```

54 58 45 54 44 52 43 07 00000 P.AAA: .ASCII <7>\CRDTEXT\ ;
20 44 4E 41 20 05 00008 P.AAB: .ASCII <5>\ AND \ ;
2F 21 02 0000E P.AAC: .ASCII <2>\!/\ ;
5F 21 02 00011 P.AAD: .ASCII <2>\!/\ ;
2F 01 00014 P.AAE: .ASCII <1>\!/\ ;
3F 3F 3F 3F 04 00016 P.AAF: .ASCII <4>\????\ ;
5F 21 5F 21 04 0001B P.AAG: .ASCII <4>\! ! \ ;
55 4E 45 4D 04 00020 P.AAH: .ASCII <4>\MĒNŪ\ ;
4F 54 55 41 04 00025 P.AAI: .ASCII <4>\AUTO\ ;
43 41 38 31 21 2F 21 07 0002A P.AAJ: .ASCII <7>\! /!18AC\ ;
54 52 41 54 53 20 47 4E 49 54 53 45 54 20 1D 00032 P.AAK: .ASCII <29>\ TESTING STARTED - RUN TIME \ ;
3D 20 45 4D 49 54 20 4E 55 52 20 2D 20 44 45 00041 ;
53 45 54 55 4E 49 4D 20 43 41 34 21 20 0D 00050 P.AAL: .ASCII <13>\ !4AC MINUTES\ ;
2F 21 2A 44 45 4C 49 41 46 2A 20 20 20 0D 0005E P.AAM: .ASCII <13>\ *FAILED*!/\ ;
2F 21 20 44 45 53 53 41 50 20 20 20 20 0D 0006C P.AAN: .ASCII <13>\ PASSED !/\ ;
43 20 54 53 45 54 20 43 41 21 2F 21 2F 21 21 0007A P.AAO: .ASCII \! ! ! ! ! AC TEST COMPLETE - NO ERRORS\ ;
52 45 20 4F 4E 20 2D 20 45 54 45 4C 50 4D 4F 00089 ;
53 52 4F 52 00098 ;
43 20 54 53 45 54 20 43 41 21 2F 21 2F 21 1E 0009C P.AAP: .ASCII <30>\! ! ! ! ! AC TEST COMPLETE - ERRORS\ ;
52 4F 52 52 45 20 2D 20 45 54 45 4C 50 4D 4F 000AB ;
53 000BA ;
49 20 54 53 45 54 20 43 41 21 2F 21 2F 21 36 000BB P.AAQ: .ASCII \6! ! ! ! ! AC TEST INCOMPLETE !AC BAD - CAL\ ;
43 41 21 20 2D 20 45 54 45 4C 50 4D 4F 43 4E 000CA ;
4C 41 43 20 2D 20 44 41 42 20 000D9 ;
45 43 49 56 52 45 53 20 44 4C 45 49 46 20 4C 000E3 .ASCII \L FIELD SERVICE\ ;
49 20 54 53 45 54 20 43 41 21 2F 21 2F 21 42 000F2 P.AAR: .ASCII \B! ! ! ! ! AC TEST INCOMPLETE IF ASSISTANCE\ ;
20 46 49 20 2D 20 45 54 45 4C 50 4D 4F 43 4E 00101 ;
45 43 4E 41 54 53 49 53 53 41 00110 ;
46 20 4C 4C 41 43 20 2C 44 45 44 45 45 4E 20 0011A .ASCII \ NEEDED, CALL FIELD SERVICE\ ;
45 43 49 56 52 45 53 20 44 4C 45 49 00129 ;
49 20 54 53 45 54 20 43 41 21 2F 21 2F 21 52 00135 P.AAS: .ASCII \R! ! ! ! ! AC TEST INCOMPLETE /CHECK DEVICE P\ ;
43 45 48 43 2F 21 45 54 45 4C 50 4D 4F 43 4E 00144 ;
50 20 45 43 49 56 45 44 20 4B 00153 ;
46 49 20 2D 20 4E 4F 49 54 41 52 41 50 45 52 0015D .ASCII \REPARATION - IF OK, THEN CALL FIELD SERV\ ;
20 4C 4C 41 43 20 4E 45 48 54 20 2C 4B 4F 20 0016C ;
56 52 45 53 20 44 4C 45 49 46 0017B ;
45 43 49 00185 .ASCII \ICE\ ;
41 20 54 53 45 54 20 43 41 21 2F 21 2F 21 29 00188 P.AAT: .ASCII \)! ! ! ! ! AC TEST ABORTED - CALL FIELD SERV\ ;
46 20 4C 4C 41 43 20 2D 20 44 45 54 52 4F 42 00197 ;
49 56 52 45 53 20 44 4C 45 49 001A6 ;
45 43 001B0 .ASCII \CE\ ;

```

```

C 6
19-Sep-1985      Fiche 6  Frame C6      Sequence 1097
ZZ-ENSAB-2.0    Hardware Test Preparation Text
CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Page 20
11 Hardware Test Preparation Text 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)

41 20 54 53 45 54 20 43 41 21 2F 21 2F 21 29 001B2 P.AAU: .ASCII \)!/!/!AC TEST ABORTED - CALL FIELD SERVI\ ;
46 20 4C 4C 41 43 20 2D 20 44 45 54 52 4F 42 001C1 ;
    49 56 52 45 53 20 44 4C 45 49 001D0 ;
    45 43 001DA .ASCII \CE\ ;
41 20 54 53 45 54 20 43 41 21 2F 21 2F 21 29 001DC P.AAV: .ASCII \)!/!/!AC TEST ABORTED - CALL FIELD SERVI\ ;
46 20 4C 4C 41 43 20 2D 20 44 45 54 52 4F 42 001EB ;
    49 56 52 45 53 20 44 4C 45 49 001FA ;
    45 43 00204 .ASCII \CE\ ;
41 20 54 53 45 54 20 43 41 21 2F 21 2F 21 29 00206 P.AAW: .ASCII \)!/!/!AC TEST ABORTED - CALL FIELD SERVI\ ;
46 20 4C 4C 41 43 20 2D 20 44 45 54 52 4F 42 00215 ;
    49 56 52 45 53 20 44 4C 45 49 00224 ;
    45 43 0022E .ASCII \CE\ ;
41 20 54 53 45 54 20 43 41 21 2F 21 2F 21 32 00230 P.AAX: .ASCII \2!/!/!AC TEST ABORTED - CONTROL-C TYPED \ ;
4F 52 54 4E 4F 43 20 2D 20 44 45 54 52 4F 42 0023F ;
    20 44 45 50 59 54 20 43 2D 4C 0024E ;
    4C 41 4E 49 4D 52 45 54 20 54 41 00258 .ASCII \AT TERMINAL\ ;
20 46 4F 20 44 4E 45 20 2A 2A 2A 2A 2F 21 26 00263 P.AAY: .ASCII \&!/!*** END OF VAX-11 CRD !AC TEST ***\ ;
20 43 41 21 20 44 52 43 20 31 31 2D 58 41 56 00272 ;
    2A 2A 2A 2A 20 54 53 45 54 00281 ;
20 47 4E 49 4E 52 55 54 45 52 2F 21 2F 21 3C 0028A P.AAZ: .ASCII \<!/!/RETURNING TO VAX-11 CRD CONSOLE, WA\ ;
43 20 44 52 43 20 31 31 2D 58 41 56 20 4F 54 00299 ;
    41 57 20 2C 45 4C 4F 53 4E 4F 002A8 ;
52 50 20 22 3E 3E 3E 22 20 52 4F 46 20 54 49 002B2 .ASCII \IT FOR >>> PROMPT!/\ ;
    2F 21 54 50 4D 4F 002C1 ;
20 47 4E 49 4E 52 55 54 45 52 2F 21 2F 21 39 002C7 P.ABA: .ASCII \9!/!/RETURNING TO VAX DIAGNOSTIC SUPERVI\ ;
54 53 4F 4E 47 41 49 44 20 58 41 56 20 4F 54 002D6 ;
    49 56 52 45 50 55 53 20 43 49 002E5 ;
44 4F 4D 20 44 4E 41 4D 4D 4F 43 20 52 4F 53 002EF .ASCII \SOR COMMAND MODE!/\ ;
    2F 21 45 002FE ;
66 20 4E 52 55 54 45 52 20 73 73 65 72 50 18 00301 P.ABB: .ASCII <24>\Press RETURN for more...\ ;
    2E 2E 2E 65 72 6F 6D 20 72 6F 00310 ;
66 20 4E 52 55 54 45 52 20 73 73 65 72 50 1D 0031A P.ABC: .ASCII <29>\Press RETURN for MAIN MENU...\ ;
2E 2E 2E 55 4E 45 4D 20 4E 49 41 4D 20 72 6F 00329 ;
44 45 54 52 4F 50 50 55 53 20 4F 4E 2F 21 36 00338 P.ABD: .ASCII \6!/NO SUPPORTED DISK CONTROLLER FOUND BY\ ;
45 4C 4C 4F 52 54 4E 4F 43 20 4B 53 49 44 20 00347 ;
    59 42 20 44 4E 55 4F 46 20 52 00356 ;
54 53 45 54 20 4F 52 43 41 4D 20 44 52 43 20 00360 .ASCII \ CRD MACRO TEST\ ;
45 44 20 4F 54 20 45 4C 42 41 4E 55 2F 21 4B 0036F P.ABE: .ASCII \K!/UNABLE TO DETERMINE DEVICES ON THE SY\ ;
53 45 43 49 56 45 44 20 45 4E 49 4D 52 45 54 0037E ;
    59 53 20 45 48 54 20 4E 4F 20 0038D ;
48 54 52 55 46 20 4F 4E 20 2D 20 4D 45 54 53 00397 .ASCII \STEM - NO FURTHER TESTING POSSIBLE!/\ ;
53 53 4F 50 20 47 4E 49 54 53 45 54 20 52 45 003A6 ;
    2F 21 45 4C 42 49 003B5 ;
41 20 54 4F 4E 20 45 43 49 56 45 44 2F 21 18 003BB P.ABF: .ASCII <24>\!/DEVICE NOT AVAILABLE!/\ ;
    2F 21 45 4C 42 41 4C 49 41 56 003CA ;
41 56 41 20 54 4F 4E 20 45 43 49 56 45 44 16 003D4 P.ABG: .ASCII <22>\DEVICE NOT AVAILABLE!/\ ;
    2F 21 45 4C 42 41 4C 49 003E3 ;
4E 47 41 49 44 20 45 43 49 56 45 44 2F 21 1F 003EB P.ABH: .ASCII <31>\!/DEVICE DIAGNOSTIC NOT FOUND!/\ ;
44 4E 55 4F 46 20 54 4F 4E 20 43 49 54 53 4F 003FA ;
    2F 21 00409 ;
49 54 4E 4F 43 20 54 4F 4E 4E 41 43 2F 21 27 0040B P.ABI: .ASCII \!/CANNOT CONTINUE TESTING THIS DEVICE!/\ ;
49 48 54 20 47 4E 49 54 53 45 54 20 45 55 4E 0041A ;
    2F 21 45 43 49 56 45 44 20 53 00429 ;
    43 41 21 20 2A 2A 2A 2F 21 09 00433 P.ABJ: .ASCII <9>\!/*** !AC\ ;
49 53 52 45 56 20 53 49 48 54 2F 21 2F 21 2F 0043D P.ABK: .ASCII \!/!/THIS VERSION OF CRD !AC TEST IS COR\ ;

```



```

D 6
19-Sep-1985      Fiche 6      Frame D6      Sequence 1098
22-ENSAB-2.0    Hardware Test Preparation Text
CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Page 21
11 Hardware Test Preparation Text 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)

54 20 43 41 21 20 44 52 43 20 46 4F 20 4E 4F 0044C ;
    52 4F 43 20 53 49 20 54 53 45 0045B ;
    2F 21 44 45 54 50 55 52 00465 .ASCII \RUPTED!/\ ;
61 6D 6D 6F 43 20 53 44 20 2A 2A 2A 2F 21 1D 0046D P.ABL: .ASCII <29>\!/* DS Command: !60<!AD!>!\ ;
2F 21 3E 21 44 41 21 3C 30 36 21 20 3A 64 6E 0047C ;
    00 0048B P.ABM: .ASCII <0> ;
    2F 21 02 0048C P.ABN: .ASCII <2>\!/\ ;
    20 2A 2A 2F 21 05 0048F P.ABO: .ASCII <5>\!/* \ ;
    2A 2A 20 03 00495 P.ABP: .ASCII <3>\ **\ ;
59 52 41 4D 4D 55 53 20 2D 2D 2F 21 2F 21 13 00499 P.ABQ: .ASCII <19>\!/* -- SUMMARY --!\ ;
    2F 21 2D 2D 20 004A8 ;
20 3A 64 65 6C 69 61 46 20 20 20 20 2F 21 2D 004AD P.ABR: .ASCII \-!/* Failed: (Hardware name/Generic n\ ;
65 6D 61 6E 20 65 72 61 77 64 72 61 48 28 20 004BC ;
    6E 20 63 69 72 65 6E 65 47 2F 004CB ;
    2F 21 29 65 6D 61 004D5 .ASCII \ame)!/\ ;
20 3A 64 65 73 73 61 50 20 20 20 20 2F 21 2D 004DB P.ABS: .ASCII \-!/* Passed: (Hardware name/Generic n\ ;
65 6D 61 6E 20 65 72 61 77 64 72 61 48 28 20 004EA ;
    6E 20 63 69 72 65 6E 65 47 2F 004F9 ;
    2F 21 29 65 6D 61 00503 .ASCII \ame)!/\ ;
63 65 72 72 6F 63 6E 49 20 20 20 20 2F 21 45 00509 P.ABT: .ASCII \E!/* Incorrect Hardware Preparation: \ ;
70 65 72 50 20 65 72 61 77 64 72 61 48 20 74 00518 ;
    20 20 3A 6E 6F 69 74 61 72 61 00527 ;
2F 65 6D 61 6E 20 65 72 61 77 64 72 61 48 28 00531 .ASCII \ (Hardware name/Generic name)!/\ ;
2F 21 29 65 6D 61 6E 20 63 69 72 65 6E 65 47 00540 ;
20 3A 73 72 65 68 74 4F 20 20 20 20 2F 21 25 0054F P.ABU: .ASCII \x!/* Others: (Diagnostic message)!/\ ;
65 6D 20 63 69 74 73 6F 6E 67 61 69 44 28 20 0055E ;
    2F 21 29 65 67 61 73 73 0056D ;
4D 45 4D 5F 21 5F 21 5F 21 55 50 43 5F 21 15 00575 P.ABV: .ASCII <21>\!/_CPU!/_!/_MEMORY!/_ \ ;
    5F 21 5F 21 59 52 4F 00584 ;
4F 54 53 55 43 20 2A 39 31 21 2F 21 2F 21 D1 0058B P.ABW: .ASCII <209>\!/*!/*!19* CUSTOMER RUNNABLE DIAGNOS\ ;
49 44 20 45 4C 42 41 4E 4E 55 52 20 52 45 4D 0059A ;
    53 4F 4E 47 41 005A9 ;
2F 21 2F 21 45 47 41 4B 43 41 50 20 43 49 54 005AE .ASCII \TIC PACKAGE!/*!/*30* Version V020!/*!/*!\ ;
20 20 20 6E 6F 69 73 72 65 56 20 2A 30 33 21 005BD ;
    2F 21 2F 21 2F 21 30 32 30 56 005CC ;
2D 58 41 56 20 4E 49 47 45 42 20 2A 2A 34 21 005D6 .ASCII \!4** BEGIN VAX-11 CRD MENU TEST !4**!/*!\ ;
53 45 54 20 55 4E 45 4D 20 44 52 43 20 31 31 005E5 ;
    2F 21 2F 21 2A 2A 34 21 20 54 005F4 ;
6B 20 4C 52 54 43 20 65 68 74 20 65 70 79 54 005FE .ASCII \Type the CTRL key and the C key (togethe\ ;
65 6B 20 43 20 65 68 74 20 64 6E 61 20 79 65 0060D ;
    65 68 74 65 67 6F 74 28 20 79 0061C ;
65 6D 69 74 20 79 6E 61 2F 21 74 61 20 29 72 00626 .ASCII \r) at!/*any time to interrupt Menu Test p\ ;
4D 20 74 70 75 72 72 65 74 6E 69 20 6F 74 20 00635 ;
    70 20 74 73 65 54 20 75 6E 65 00644 ;
2F 21 2F 21 2F 21 67 6E 69 73 73 65 63 6F 72 0064E .ASCII \rocessing!/*!/*!\ ;
49 20 45 52 41 57 44 52 41 48 2D 58 41 56 4F 0065D P.ABX: .ASCII \OVAX-HARDWARE IDENTIFICATION - RUN TIME \ ;
2D 20 4E 4F 49 54 41 43 49 46 49 54 4E 45 44 0066C ;
    20 45 4D 49 54 20 4E 55 52 20 0067B ;
53 45 54 55 4E 49 4D 20 30 33 3A 30 30 20 3D 00685 .ASCII \= 00:30 MINUTES!/*!/*Please wait . . .!/*!\ ;
74 69 61 77 20 65 73 61 65 6C 50 2F 21 2F 21 00694 ;
    2F 21 2F 21 2E 20 2E 20 2E 20 006A3 ;
52 41 48 20 44 52 43 20 31 31 2D 58 41 56 2D 006AD P.ABY: .ASCII \-VAX-11 CRD HARDWARE IDENTIFICATION COMP\ ;
43 49 46 49 54 4E 45 44 49 20 45 52 41 57 44 006BC ;
    50 4D 4F 43 20 4E 4F 49 54 41 006CB ;
    2F 21 45 54 45 4C 006D5 .ASCII \LETE!/\ ;

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ZZ-ENSAB-2.0      Hardware Test Preparation Text      E 6
CRDTEXT *** CRD MENU - Message Module      19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746      Fiche 6 Frame E6      Sequence 1099
11 Hardware Test Preparation Text      4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)

49 41 4D 2F 21 2D 2A 37 32 21 2F 21 2F 21 2D 006DB P.ABZ: .ASCII \-!//!27*-!/MAIN MENU - Functional Test!\ ;
69 74 63 6E 75 46 20 2D 20 55 4E 45 4D 20 4E 006EA ;
      21 74 73 65 54 20 6C 61 6E 6F 006F9 ;
      2D 2A 37 32 21 2F 00703 .ASCII \-!27*- \ ;
41 21 20 3D 20 44 41 21 20 20 20 20 2F 21 0F 00709 P.ACA: .ASCII <15>\!/ !AD = !AC\ ;
      43 00718 ;
74 73 65 54 20 75 6E 65 4D 20 74 69 78 45 0E 00719 P.ACB: .ASCII <14>\Exit Menu Test\ ;
74 61 72 61 70 65 72 70 20 74 6E 69 72 50 39 00728 P.ACC: .ASCII \9Print preparation required for test of \ ;
6F 66 20 64 65 72 69 75 71 65 72 20 6E 6F 69 00737 ;
      20 66 6F 20 74 73 65 74 20 72 00746 ;
77 64 72 61 68 20 64 65 74 72 6F 70 70 75 73 00750 .ASCII \supported hardware\ ;
      65 72 61 0075F ;
73 65 54 20 64 6E 61 20 74 63 65 6C 65 53 27 00762 P.ACD: .ASCII \'Select and Test hardware from TEST MENU\ ;
6D 6F 72 66 20 65 72 61 77 64 72 61 68 20 74 00771 ;
      55 4E 45 4D 20 54 53 45 54 20 00780 ;
20 66 6F 20 74 73 69 6C 20 74 6E 69 72 50 38 0078A P.ACE: .ASCII \;Print list of identified system hardwar\ ;
74 73 79 73 20 64 65 69 66 69 74 6E 65 64 69 00799 ;
      72 61 77 64 72 61 68 20 6D 65 007A8 ;
73 20 74 72 6F 70 70 75 73 20 64 6E 61 20 65 007B2 .ASCII \e and support status\ ;
      73 75 74 61 74 007C1 ;
6F 70 70 75 53 20 4C 4C 41 20 54 53 45 54 1B 007C6 P.ACF: .ASCII <27>\TEST ALL Supported Hardware\ ;
65 72 61 77 64 72 61 48 20 64 65 74 72 007D5 ;
6F 20 65 70 79 54 20 20 20 20 2F 21 2F 21 44 007E2 P.ACG: .ASCII \D!// Type one of the above (for exam\ ;
65 76 6F 62 61 20 65 68 74 20 66 6F 20 65 6E 007F1 ;
      6D 61 78 65 20 72 6F 66 28 20 00800 ;
72 70 20 64 6E 61 20 2C 29 41 20 2C 65 6C 70 0080A .ASCII \ple, A), and press RETURN!//\ ;
      2F 21 2F 21 4E 52 55 54 45 52 20 73 73 65 00819 ;
4E 49 41 4D 20 72 65 74 6E 45 20 20 20 20 1C 00827 P.ACH: .ASCII <28>\ Enter MAIN MENU choice: \ ;
      20 3A 65 63 69 6F 68 63 20 55 4E 45 4D 20 00836 ;
54 53 45 54 2F 21 2D 2A 39 21 2F 21 19 00844 P.ACI: .ASCII <25>\!/!/!9*-!/TEST MENU!/!9*- \ ;
      2D 2A 39 21 2F 21 55 4E 45 4D 20 00853 ;
21 4C 55 21 44 41 21 3C 33 21 20 20 20 20 20 0085E P.ACJ: .ASCII \ !3<!AD!UL!> = !9AC !9AC !6AC\ ;
21 20 43 41 39 21 20 43 41 39 21 20 3D 20 3E 0086D ;
      43 41 36 0087C ;
21 4C 55 21 44 41 21 3C 33 21 20 20 20 20 3A 0087F P.ACK: .ASCII \: !3<!AD!UL!> = TEST ALL of the above\ ;
66 6F 20 4C 4C 41 20 54 53 45 54 20 3D 20 3E 0088E ;
      65 76 6F 62 61 20 65 68 74 20 0089D ;
64 72 61 68 20 64 65 74 72 6F 70 70 75 73 20 008A7 .ASCII \ supported hardware\ ;
      65 72 61 77 008B6 ;
6F 20 65 70 79 54 20 20 20 2F 21 2F 21 56 008BA P.ACL: .ASCII \V!// Type one of the above (for exam\ ;
65 76 6F 62 61 20 65 68 74 20 66 6F 20 65 6E 008C9 ;
      6D 61 78 65 20 72 6F 66 28 20 008D8 ;
70 20 64 6E 61 20 2C 29 31 41 20 2C 65 6C 70 008E2 .ASCII \ple, A1), and press RETURN to start test\ ;
20 6F 74 20 4E 52 55 54 45 52 20 73 73 65 72 008F1 ;
      74 73 65 74 20 74 72 61 74 73 00900 ;
      2F 21 2F 21 67 6E 69 0090A .ASCII \ing!//\ ;
54 53 45 54 20 72 65 74 6E 45 20 20 20 20 1C 00911 P.ACM: .ASCII <28>\ Enter TEST MENU choice: \ ;
      20 3A 65 63 69 6F 68 63 20 55 4E 45 4D 20 00920 ;
55 54 45 52 20 73 73 65 72 50 20 2A 2A 2A 37 0092E P.ACN: .ASCII \7*** Press RETURN for remainder of TEST \ ;
65 64 6E 69 61 6D 65 72 20 72 6F 66 20 4E 52 0093D ;
      20 54 53 45 54 20 66 6F 20 72 0094C ;
2A 2A 20 73 65 63 69 6F 68 63 20 55 4E 45 4D 00956 .ASCII \MENU choices ***\ ;
      2A 00965 ;
66 20 4E 52 55 54 45 52 20 73 73 65 72 50 1D 00966 P.ACO: .ASCII <29>\Press RETURN for TEST MENU...\ ;
2E 2E 2E 55 4E 45 4D 20 54 53 45 54 20 72 6F 00975 ;

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F 6
ZZ-ENSAB-2.0 Hardware Test Preparation Text 19-Sep-1985 Fiche 6 Frame F6 Sequence 1100
CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Page 23
11 Hardware Test Preparation Text 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)

20 2F 21 2D 2A 34 31 21 20 20 20 20 2F 21 2C 00984 P.ACP: .ASCII \,!/ !14*-!/ CONTROL-C MENU!/ !1\ ;
45 4D 20 43 2D 4C 4F 52 54 4E 4F 43 20 20 00993 ;
31 21 20 20 20 20 2F 21 55 4E 009A2 ;
2F 21 2D 2A 34 009AC .ASCII \4*-!/ \ ;
20 44 41 21 20 20 20 20 20 20 20 2F 21 13 009B1 P.ACQ: .ASCII <19>\!/ !AD = !AC\ ;
43 41 21 20 3D 009C0 ;
73 73 65 63 6F 72 70 20 65 6D 75 73 65 52 28 009C5 P.ACR: .ASCII \+Resume process interrupted by the CONTR\ ;
79 62 20 64 65 74 70 75 72 72 65 74 6E 69 20 009D4 ;
52 54 4E 4F 43 20 65 68 74 20 009E3 ;
43 2D 4C 4F 009ED .ASCII \OL-C\ ;
72 72 75 63 20 65 68 74 20 74 72 6F 62 41 36 009F1 P.ACS: .ASCII \6Abort the current process, and return t\ ;
6E 61 20 2C 73 73 65 63 6F 72 70 20 74 6E 65 00A00 ;
74 20 6E 72 75 74 65 72 20 64 00A0F ;
55 4E 45 4D 20 4E 49 41 4D 20 65 68 74 20 6F 00A19 .ASCII \o the MAIN MENU\ ;
79 54 20 20 20 20 20 20 20 20 2F 21 2F 21 47 00A28 P.ACT: .ASCII \G!// Type one of the above (for \ ;
61 20 65 68 74 20 66 6F 20 65 6E 6F 20 65 70 00A37 ;
20 72 6F 66 28 20 65 76 6F 62 00A46 ;
64 6E 61 20 29 41 20 2C 65 6C 70 6D 61 78 65 00A50 .ASCII \example, A) and press RETURN!// \ ;
2F 21 4E 52 55 54 45 52 20 73 73 65 72 70 20 00A5F ;
2F 21 00A6E ;
20 72 65 74 6E 45 20 20 20 20 20 20 20 25 00A70 P.ACU: .ASCII \x Enter CONTROL-C MENU choice: \ ;
20 55 4E 45 4D 20 43 2D 4C 4F 52 54 4E 4F 43 00A7F ;
20 3A 65 63 69 6F 68 63 00A8E ;
65 68 74 20 67 6E 69 6D 75 73 65 52 2F 21 24 00A96 P.ACV: .ASCII \$/Resuming the interrupted process!// \ ;
72 70 20 64 65 74 70 75 72 72 65 74 6E 69 20 00AA5 ;
2F 21 73 73 65 63 6F 00AB4 ;
20 20 20 20 20 20 55 50 43 09 00ABB P.ACW: .ASCII <9>\CPU \ ;
20 20 20 59 52 4F 4D 45 4D 09 00ACS P.ACX: .ASCII <9>\MEMORY \ ;
20 20 20 20 20 20 48 53 49 44 09 00ACF P.ACY: .ASCII <9>\DISK \ ;
20 20 20 20 20 20 45 50 41 54 09 00AD9 P.ACZ: .ASCII <9>\TAPE \ ;
20 20 20 20 20 2E 4D 4D 4F 43 09 00AE3 P.ADA: .ASCII <9>\COMM. \ ;
20 45 4D 49 54 4C 41 45 52 09 00AED P.ADB: .ASCII <9>\REALTIME \ ;
20 4C 41 4E 49 4D 52 45 54 09 00AF7 P.ADC: .ASCII <9>\TERMINAL \ ;
20 20 52 45 54 4E 49 52 50 09 00B01 P.ADD: .ASCII <9>\PRINTER \ ;
20 20 20 20 20 44 52 41 43 09 00B0B P.ADE: .ASCII <9>\CARD \ ;
20 20 52 4F 54 50 41 44 41 09 00B15 P.ADF: .ASCII <9>\ADAPTOR \ ;
20 20 20 20 20 20 20 20 09 00B1F P.ADG: .ASCII <9>\ \ ;
77 64 72 61 48 3C 39 21 20 2A 38 21 2F 21 68 00B29 P.ADH: .ASCII \k!//!8* !9<Hardware!> !8<Generic!> !9<Tes\ ;
69 72 65 6E 65 47 3C 38 21 20 3E 21 65 72 61 00B38 ;
73 65 54 3C 39 21 20 3E 21 63 00B47 ;
21 20 2A 38 21 2F 21 3E 21 75 6E 65 4D 20 74 00B51 .ASCII \t Menu!>!/!8* !9<Name!> !8<Name!> !9<Sup\ ;
6D 61 4E 3C 38 21 20 3E 21 65 6D 61 4E 3C 39 00B60 ;
70 75 53 3C 39 21 20 3E 21 65 00B6F ;
2A 39 21 20 2A 38 21 2F 21 3E 21 74 72 6F 70 00B79 .ASCII \port!>!/!8* !9*- !8*- !9*-!/ \ ;
2F 21 2D 2A 39 21 20 2D 2A 38 21 20 2D 00B88 ;
20 43 41 38 21 20 43 41 39 21 20 2A 38 21 11 00B95 P.ADI: .ASCII <17>\!8* !9AC !8AC !AC\ ;
43 41 21 00BA4 ;
44 45 54 52 4F 50 50 55 53 09 00BA7 P.ADJ: .ASCII <9>\SUPPORTED\ ;
74 72 6F 70 70 75 53 20 6F 4E 0A 00BB1 P.ADK: .ASCII <10>\No Support\ ;
20 66 6F 20 64 6E 45 5B 5F 21 5F 21 2F 21 13 00BBC P.ADL: .ASCII <19>\!/!_!_[End of list]\ ;
5D 74 73 69 6C 00BCB ;
74 20 65 70 79 54 20 2A 34 21 2F 21 2F 21 63 00BD0 P.ADM: .ASCII \c!//!4* Type the CTRL key and the C key\ ;
64 6E 61 20 79 65 6B 20 4C 52 54 43 20 65 68 00BDF ;
79 65 6B 20 43 20 65 68 74 20 00BEE ;
34 21 2F 21 29 72 65 68 74 65 67 6F 74 28 20 00BF8 .ASCII \ (together)!//!4* at any time to interrup\ ;

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ZZ-ENSAB-2.0      Hardware Test Preparation Text      G 6
CRDTEXT *** CRD MENU - Message Module      19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746      19-Sep-1985      Fiche 6 Frame G6      Sequence 1101
11 Hardware Test Preparation Text      4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)      Page 24

74 20 65 6D 69 74 20 79 6E 61 20 74 61 20 2A 00C07      ;
    70 75 72 72 65 74 6E 69 20 6F 00C16      ;
65 54 20 6C 61 6E 6F 69 74 63 6E 75 46 20 74 00C20      .ASCII \t Functional Testing\      ;
    67 6E 69 74 73 00C2F      ;
2A 30 31 21 20 2A 34 21 2F 21 2F 21 2F 21 2E 00C34 P.ADN: .ASCII \.!!/!!/!4* !10** BEGIN FUNCTIONAL TESTIN\      ;
4F 49 54 43 4E 55 46 20 4E 49 47 45 42 20 2A 00C43      ;
    4E 49 54 53 45 54 20 4C 41 4E 00C52      ;
    2A 2A 30 31 21 20 47 00C5C      .ASCII \G !10**\      ;
54 20 4E 55 52 20 2A 35 31 21 2F 21 2F 21 29 00C63 P.ADO: .ASCII \)!!/!!/!5* RUN TIME = !2ZL:!2ZL MINUTES!/\      ;
4C 5A 32 21 3A 4C 5A 32 21 20 3D 20 45 4D 49 00C72      ;
    2F 21 53 45 54 55 4E 49 4D 20 00C81      ;
    2F 21 00C8B      .ASCII \!/\      ;
54 20 4C 41 4E 4F 49 54 43 4E 55 46 2F 21 29 00C8D P.ADP: .ASCII \)!!/FUNCTIONAL TESTING COMPLETE - NO ERRO\      ;
45 54 45 4C 50 4D 4F 43 20 47 4E 49 54 53 45 00C9C      ;
    4F 52 52 45 20 4F 4E 20 2D 20 00CAB      ;
    53 52 00CB5      .ASCII \RS\      ;
41 4E 4F 49 54 43 4E 55 46 20 2A 2A 2F 21 2B 00CB7 P.ADQ: .ASCII \*!!/** FUNCTIONAL TESTING INCOMPLETE - ER\      ;
4D 4F 43 4E 49 20 47 4E 49 54 53 45 54 20 4C 00CC6      ;
    52 45 20 2D 20 45 54 45 4C 50 00CD5      ;
    53 52 4F 52 00CDF      .ASCII \RORS\      ;
41 4E 4F 49 54 43 4E 55 46 20 2A 2A 2F 21 29 00CE3 P.ADR: .ASCII \)!!/** FUNCTIONAL TESTING COMPLETE - ERRO\      ;
4C 50 4D 4F 43 20 47 4E 49 54 53 45 54 20 4C 00CF2      ;
    4F 52 52 45 20 2D 20 45 54 45 00D01      ;
    53 52 00D0B      .ASCII \RS\      ;
41 4E 4F 49 54 43 4E 55 46 20 2A 2A 2F 21 22 00D0D P.ADS: .ASCII \ !/** FUNCTIONAL TESTING INCOMPLETE\      ;
4D 4F 43 4E 49 20 47 4E 49 54 53 45 54 20 4C 00D1C      ;
    45 54 45 4C 50 00D2B      ;
54 53 49 53 53 41 20 46 49 20 2A 2A 2F 21 31 00D30 P.ADT: .ASCII \!/** IF ASSISTANCE IS NEEDED - CALL FIE\      ;
20 44 45 44 45 45 4E 20 53 49 20 45 43 4E 41 00D3F      ;
    45 49 46 20 4C 4C 41 43 20 2D 00D4E      ;
    45 43 49 56 52 45 53 20 44 4C 00D58      .ASCII \LD SERVICE\      ;
44 52 43 20 31 31 2D 58 41 56 2F 21 2F 21 20 00D62 P.ADU: .ASCII \ !/!/VAX-11 CRD MENU TEST ABORTED\      ;
52 4F 42 41 20 54 53 45 54 20 55 4E 45 4D 20 00D71      ;
    44 45 54 00D80      ;
44 52 43 20 31 31 2D 58 41 56 2F 21 2F 21 2C 00D83 P.ADV: .ASCII \.!!/!/VAX-11 CRD MENU TEST ABORTED BY OPE\      ;
52 4F 42 41 20 54 53 45 54 20 55 4E 45 4D 20 00D92      ;
    45 50 4F 20 59 42 20 44 45 54 00DA1      ;
    52 4F 54 41 52 00DAB      .ASCII \RATOR\      ;
44 52 43 20 31 31 2D 58 41 56 2F 21 2F 21 2C 00DB0 P.ADW: .ASCII \.!!/!/VAX-11 CRD MENU TEST STOPPED BY OPE\      ;
50 4F 54 53 20 54 53 45 54 20 55 4E 45 4D 20 00DBF      ;
    45 50 4F 20 59 42 20 44 45 50 00DCE      ;
    52 4F 54 41 52 00DD8      .ASCII \RATOR\      ;
36 21 20 43 41 39 21 20 43 41 39 21 2F 21 3A 00DDD P.ADX: .ASCII \:!!/!9AC !9AC !6AC TESTING STARTED - RUN \      ;
52 41 54 53 20 47 4E 49 54 53 45 54 20 43 41 00DEC      ;
    20 4E 55 52 20 2D 20 44 45 54 00DFB      ;
4E 49 4D 20 43 41 35 21 20 3D 20 45 4D 49 54 00E05      .ASCII \TIME = !5AC MINUTES\      ;
    53 45 54 55 00E14      ;
    00 00E18 P.ADY: .ASCII <0>      ;
4C 45 49 46 20 4C 4C 41 43 20 2A 2A 2F 21 1A 00E19 P.ADZ: .ASCII <26>\!/** CALL FIELD SERVICE **\      ;
    2A 2A 20 45 43 49 56 52 45 53 20 44 00E28      ;
6C 61 76 6E 49 20 2A 2A 20 20 20 20 2F 21 26 00E34 P.AEA: .ASCII \&!/** Invalid Choice - Try Again **\      ;
79 72 54 20 2D 20 65 63 69 6F 68 43 20 64 69 00E43      ;
    2A 2A 20 6E 69 61 67 41 20 00E52      ;
41 48 20 44 45 4C 49 41 46 20 2A 2A 2F 21 21 00E5B P.AEB: .ASCII \!/** FAILED HARDWARE TESTING: !AC\      ;
3A 47 4E 49 54 53 45 54 20 45 52 41 57 44 52 00E6A      ;

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43 41 21 20 2A 23 21 20 2A 2A 2F 21 2F 21 50 00E7D P.AEC: .ASCII \P!//** !#* !AC !#* **!//** !#* !AC - INC\ ;
2A 23 21 20 2A 2A 2F 21 2A 2A 20 2A 23 21 20 00E8C ;
43 4E 49 20 2D 20 43 41 21 20 00E9B ;
45 52 41 57 44 52 41 48 20 54 43 45 52 52 4F 00EA5 .ASCII \ORRECT HARDWARE TEST PREPARATION !#* **!\ ;
49 54 41 52 41 50 45 52 50 20 54 53 45 54 20 00EB4 ;
21 2A 2A 20 2A 23 21 20 4E 4F 00EC3 ;
2F 00ECD .ASCII \/\ ;
43 41 21 20 2A 23 21 20 2A 2A 2F 21 2F 21 3D 00ECE P.AED: .ASCII \=!//** !#* !AC - INCORRECT HARDWARE TES\ ;
41 48 20 54 43 45 52 52 4F 43 4E 49 20 2D 20 00EDD ;
53 45 54 20 45 52 41 57 44 52 00EEC ;
21 20 4E 4F 49 54 41 52 41 50 45 52 50 20 54 00EF6 .ASCII \T PREPARATION !#* **!\ ;
2F 21 2A 2A 20 2A 23 00F05 ;
20 44 45 4C 49 41 46 20 2A 2A 2F 21 2F 21 2B 00F0C P.AEE: .ASCII \+!//** FAILED TO RUN ONLINE AUTOSIZER \ ;
41 20 45 4E 49 4C 4E 4F 20 4E 55 52 20 4F 54 00F1B ;
20 20 52 45 5A 49 53 4F 54 55 00F2A ;
2F 21 2A 2A 00F34 .ASCII \**!/\ ;
4E 52 41 57 20 2A 2A 38 32 21 2F 21 2F 21 AE 00F38 P.AEF: .ASCII <174>\!//!28** WARNING !29**!//** MEDIA o\ ;
45 4D 20 2A 2F 21 2A 2A 39 32 21 20 47 4E 49 00F47 ;
6F 20 41 49 44 00F56 ;
67 6E 69 77 6F 6C 6C 6F 66 20 65 68 74 20 6E 00F5B .ASCII \n the following hardware MAY BE DESTROYE\ ;
42 20 59 41 4D 20 65 72 61 77 64 72 61 68 20 00F6A ;
45 59 4F 52 54 53 45 44 20 45 00F79 ;
2A 2F 21 2A 20 2A 34 36 21 2A 2F 21 2A 20 44 00F83 .ASCII \D *!//!64* *!//!15* Hardware Name!10* Ge\ ;
4E 20 65 72 61 77 64 72 61 48 20 2A 35 31 21 00F92 ;
65 47 20 2A 30 31 21 65 6D 61 00FA1 ;
20 2A 34 31 21 65 6D 61 4E 20 63 69 72 65 6E 00FAB .ASCII \neric Name!14* *!//!15* -----!10\ ;
2D 2D 2D 2D 2D 2D 2D 2A 35 31 21 2A 2F 21 2A 00FBA ;
30 31 21 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 00FC9 ;
21 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 20 2A 00FD3 .ASCII \* -----!14* *\ ;
2A 20 2A 34 31 00FE2 ;
41 21 3C 32 32 21 20 2A 35 31 21 2A 2F 21 1D 00FE7 P.AEG: .ASCII <29>\!//!15* !22<!AC!> !25<!AC!> *\ ;
2A 20 3E 21 43 41 21 3C 35 32 21 20 3E 21 43 00FF6 ;
2A 2A 36 36 21 2F 21 07 01005 P.AEH: .ASCII <7>\!//!66*\ ;
20 73 73 65 72 50 20 20 20 20 0A 0D 0A 0D 3B 0100D P.AEI: .ASCII \;<13><10><13><10>\ Press RETU\ ;
55 54 45 52 0101C ;
64 65 6D 20 65 68 74 20 6E 65 68 77 20 4E 52 01020 .ASCII \RN when the media is ready to be tested:\ ;
20 6F 74 20 79 64 61 65 72 20 73 69 20 61 69 0102F ;
3A 64 65 74 73 65 74 20 65 62 0103E ;
20 01048 .ASCII \ \ ;
4F 54 20 44 45 4C 49 41 46 20 2A 2A 2F 21 21 01049 P.AEJ: .ASCII \!//** FAILED TO ALLOCATE MEMORY **\ ;
52 4F 4D 45 4D 20 45 54 41 43 4F 4C 4C 41 20 01058 ;
2A 2A 20 59 01067 ;
45 4C 49 46 20 43 41 21 20 45 48 54 2F 21 47 0106B P.AEK: .ASCII \G!/THE !AC FILE WAS NOT FOUND!! CRD MENU\ ;
21 44 4E 55 4F 46 20 54 4F 4E 20 53 41 57 20 0107A ;
55 4E 45 4D 20 44 52 43 20 21 01089 ;
4F 43 20 54 4F 4E 4E 41 43 20 54 53 45 54 20 01093 .ASCII \ TEST CANNOT CONTINUE PROCESSING\ ;
49 53 53 45 43 4F 52 50 20 45 55 4E 49 54 4E 010A2 ;
47 4E 010B1 ;
45 4C 49 46 20 43 41 21 20 45 48 54 2F 21 4D 010B3 P.AEL: .ASCII \M!/THE !AC FILE COULD NOT BE LOADED!! CR\ ;
4C 20 45 42 20 54 4F 4E 20 44 4C 55 4F 43 20 010C2 ;
52 43 20 21 21 44 45 44 41 4F 010D1 ;
4E 41 43 20 54 53 45 54 20 55 4E 45 4D 20 44 010DB .ASCII \D MENU TEST CANNOT CONTINUE PROCESSING\ ;
52 50 20 45 55 4E 49 54 4E 4F 43 20 54 4F 4E 010EA ;
47 4E 49 53 53 45 43 4F 010F9 ;
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3A 65 72 61 77 64 72 61 48 20 20 20 2F 21 12 01101 P.AEM: .ASCII <18>\!// Hardware: !AD\ ;
      44 41 21 20 01110
3A 6E 6F 69 74 61 72 61 70 65 72 50 2F 21 0F 01114 P.AEN: .ASCII <15>\!//Preparation: \ ;
      20 01123
65 72 61 77 64 72 61 48 20 6F 4E 20 2E 31 2B 01124 P.AEO: .ASCII \+1. No Hardware test preparation require\ ;
69 74 61 72 61 70 65 72 70 20 74 73 65 74 20 01133
      65 72 69 75 71 65 72 20 6E 6F 01142
      2F 21 2E 64 0114C .ASCII \d.!//\ ;
6B 73 69 64 20 74 72 65 73 6E 49 20 2E 31 D0 01150 P.AEP: .ASCII <208>\1. Insert disk cartridge in drive \ ;
64 20 6E 69 20 65 67 64 69 72 74 72 61 63 20 0115F
      20 65 76 69 72 0116E
20 74 6F 6E 20 6C 6C 69 77 20 6B 73 69 64 28 01173 .ASCII \ (disk will not be corrupted).!//14* 2. P\ ;
21 2E 29 64 65 74 70 75 72 72 6F 63 20 65 62 01182
      50 20 2E 32 20 2A 34 31 21 2F 01191
4F 54 53 20 4E 55 52 22 20 6E 69 20 68 73 75 0119B .ASCII \ush in 'RUN STOP or LOAD switch.!//13\ ;
77 73 20 22 44 41 4F 4C 22 20 72 6F 20 22 50 011AA
      33 31 21 2F 21 2E 68 63 74 69 011B9
22 20 74 75 6F 20 68 73 75 50 20 2E 33 20 2A 011C3 .ASCII \* 3. Push out WRITE PROT switch (not I\ ;
69 77 73 20 22 54 4F 52 50 20 45 54 49 52 57 011D2
      6C 20 74 6F 6E 28 20 68 63 74 011E1
20 2A 33 31 21 2F 21 2E 29 64 65 74 68 67 69 011EB .ASCII \ighted).!//13* 4. Wait for READY indic\ ;
45 52 22 20 72 6F 66 20 74 69 61 57 20 2E 34 011FA
      63 69 64 6E 69 20 22 59 44 41 01209
      2E 74 68 67 69 6C 20 6F 74 20 72 6F 74 61 01213 .ASCII \ator to light.\ ;
70 6F 6C 66 20 74 72 65 73 6E 49 20 2E 31 6A 01221 P.AEQ: .ASCII \j1. Insert floppy diskette in drive and \ ;
20 6E 69 20 65 74 74 65 6B 73 69 64 20 79 70 01230
      20 64 6E 61 20 65 76 69 72 64 0123F
31 21 2F 21 2E 72 6F 6F 64 20 65 73 6F 6C 63 01249 .ASCII \close door.!//13* Current contents of\ ;
63 20 74 6E 65 72 72 75 43 20 20 20 20 2A 33 01258
      66 6F 20 73 74 6E 65 74 6E 6F 01267
42 20 59 41 4D 20 65 74 74 65 6B 73 69 64 20 01271 .ASCII \ diskette MAY BE DESTROYED.\ ;
      2E 44 45 59 4F 52 54 53 45 44 20 45 01280
20 65 70 61 74 20 74 6E 75 6F 4D 20 2E 31 C7 0128C P.AER: .ASCII <199>\1. Mount tape on drive. Tape must \ ;
20 65 70 61 54 20 2E 65 76 69 72 64 20 6E 6F 0129B
      20 74 73 75 6D 012AA
67 6E 69 72 2D 65 74 69 72 77 20 65 76 61 68 012AF .ASCII \have write-ring.!//13* Current conten\ ;
72 72 75 43 20 20 20 20 2A 33 31 21 2F 21 2E 012BE
      6E 65 74 6E 6F 63 20 74 6E 65 012CD
20 59 41 4D 20 65 70 61 74 20 66 6F 20 73 74 012D7 .ASCII \ts of tape MAY BE DESTROYED.!//13* 2. Pu\ ;
2F 21 2E 44 45 59 4F 52 54 53 45 44 20 45 42 012E6
      75 50 20 2E 32 20 2A 33 31 21 012F5
20 72 6F 20 22 44 4F 4C 22 20 6E 69 20 68 73 012FF .ASCII \sh in 'LOD' or 'LOAD switch to load tap\ ;
74 20 68 63 74 69 77 73 20 22 44 41 4F 4C 22 0130E
      70 61 74 20 64 61 6F 6C 20 6F 0131D
73 75 50 20 2E 33 20 2A 33 31 21 2F 21 2E 65 01327 .ASCII \e.!//13* 3. Push in ONL or ONLINE sw\ ;
22 20 72 6F 20 22 4C 4E 4F 22 20 6E 69 20 68 01336
      77 73 20 22 45 4E 49 4C 4E 4F 01345
      2E 68 63 74 69 0134F .ASCII \itch.\ ;
55 52 22 20 6E 69 20 68 73 75 50 20 2E 31 80 01354 P.AES: .ASCII <128>\1. Push in RUN STOP switch.!//13\ ;
2E 68 63 74 69 77 73 20 22 50 4F 54 53 20 4E 01363
      33 31 21 2F 21 01372
22 20 74 75 6F 20 68 73 75 50 20 2E 32 20 2A 01377 .ASCII \* 2. Push out WRITE PROT switch (not I\ ;
69 77 73 20 22 54 4F 52 50 20 45 54 49 52 57 01386
      6C 20 74 6F 6E 28 20 68 63 74 01395
20 2A 33 31 21 2F 21 2E 29 64 65 74 68 67 69 0139F .ASCII \ighted).!//13* 3. Wait for READY indic\ ;

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J 6
19-Sep-1985 Fiche 6 Frame J6 Sequence 1104

ZZ-ENSAB-2.0 Hardware Test Preparation Text
 CRDTEXT *** CRD MENU - Message Module 19-Sep-1985 16:55:04 VAX-11 Bliss-32 V4.1-746 Page 27
 11 Hardware Test Preparation Text 4-Sep-1985 09:42:57 [DS.CRD.V020]CRDTEXT.B32;1 (17)

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45 52 22 20 72 6F 66 20 74 69 61 57 20 2E 33 013AE      ;
    63 69 64 6E 69 20 22 59 44 41 013BD      ;
4F 2E 74 68 67 69 6C 20 6F 74 20 72 6F 74 61 013C7      .ASCII \ator to light.\
31 4C 22 20 6E 69 20 68 73 75 50 20 2E 31 7C 013D5 P.AET: .ASCII \|1. Push in LOAD switch.!!/!13* 2. Push\ ;
    21 2F 21 2E 68 63 74 69 77 73 20 22 44 41 013E4      ;
    68 73 75 50 20 2E 32 20 2A 33 013F3      ;
4F 52 50 20 45 54 49 52 57 22 20 74 75 6F 20 013FD      .ASCII \ out WRITE PROT switch (not lighted).!\ ;
20 74 6F 6E 28 20 68 63 74 69 77 73 20 22 54 0140C      ;
    21 2E 29 64 65 74 68 67 69 6C 0141B      ;
66 20 74 69 61 57 20 2E 33 20 2A 33 31 21 2F 01425      .ASCII \|/!13* 3. Wait for READY indicator to !\ ;
69 64 6E 69 20 22 59 44 41 45 52 22 20 72 6F 01434      ;
    6C 20 6F 74 20 72 6F 74 61 63 01443      ;
    2E 74 68 67 69 0144D      .ASCII \ight.\
6F 6D 65 72 20 74 72 65 73 6E 49 20 2E 31 BF 01452 P.AEU: .ASCII <191>\1. Insert removable disk in drive!\ ;
64 20 6E 69 20 68 73 69 64 20 65 6C 62 61 76 01461      ;
    21 65 76 69 72 01470      ;
69 20 68 73 75 50 20 2E 32 20 2A 33 31 21 2F 01475      .ASCII \|/!13* 2. Push in RUN switch!!/!13* 3. P\ ;
21 68 63 74 69 77 73 20 22 4E 55 52 22 20 6E 01484      ;
    50 20 2E 33 20 2A 33 31 21 2F 01493      ;
50 20 65 74 69 72 57 20 74 75 6F 20 68 73 75 0149D      .ASCII \ush out Write Protect REMOVE and FIXE\ ;
22 45 56 4F 4D 45 52 22 20 74 63 65 74 6F 72 014AC      ;
    45 58 49 46 22 20 64 6E 61 20 014BB      ;
69 77 73 20 20 20 20 2A 33 31 21 2F 21 22 44 014C5      .ASCII \D!!/!13* switch (unlighted)!!/!13* 4. \ ;
29 64 65 74 68 67 69 6C 6E 75 28 20 68 63 74 014D4      ;
    20 2E 34 20 2A 33 31 21 2F 21 014E3      ;
20 22 4E 55 52 22 20 72 6F 66 20 74 69 61 57 014ED      .ASCII \Wait for RUN light to stop blinking\ ;
62 20 70 6F 74 73 20 6F 74 20 74 68 67 69 6C 014FC      ;
    67 6E 69 6B 6E 69 6C 0150B      ;
72 64 20 70 75 20 72 65 77 6F 50 20 2E 31 36 01512 P.AEV: .ASCII \|61. Power up drive by pressing (1/0) swi\ ;
67 6E 69 73 73 65 72 70 20 79 62 20 65 76 69 01521      ;
    69 77 73 20 29 30 2F 31 28 20 01530      ;
2F 21 29 31 28 20 4E 4F 20 6F 74 20 68 63 74 0153A      .ASCII \tch to ON (1)!!/\ ;
  
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$MODULE=      P.AAA
CRD$GT_SPACE_AND_SPACE==
  P.AAB
CRD$GT_NEW_LINE==  P.AAC
CRD$GT_TAB==      P.AAD
CRD$GT_SLASH==    P.AAE
CRD$GT_UNKNOWN==  P.AAF
CRD$GT_2_TABS==   P.AAG
CRD$GT_MENU==     P.AAH
CRD$GT_AUTO==     P.AAI
CRD$GT_TESTING_DEVICE==
  P.AAJ
CRD$GT_TESTING_STARTED==
  P.AAK
CRD$GT_RUNTIME==  P.AAL
CRD$GT_FAIL==     P.AAM
CRD$GT_PASS==     P.AAN
CRD$GT_CRD_NO_ERRORS==
  P.AAO
CRD$GT_CRD_ERRORS_COMPLETE==
  P.AAP
CRD$GT_CRD_BAD_DEVICE==
  
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P.AAQ
CRD$GT_CRD_INCOMPLETE==
P.AAR
CRD$GT_CRD_DEV_UNTESTED==
P.AAS
CRD$GT_CRD_EVSBA_ERROR==
P.AAT
CRD$GT_CRD_EVSBB_ERROR==
P.AAU
CRD$GT_CRD_FATAL_ERROR==
P.AAV
CRD$GT_INTERNAL_ERROR_ABORT==
P.AAW
CRD$GT_CONTROL_C_ABORT==
P.AAX
CRD$GT_CRD_END_MESSAGE==
P.AAY
CRD$GT_EXIT_TO_CONSOLE==
P.AAZ
CRD$GT_EXIT_TO_CLI==P.ABA
CRD$GT_PRESS_RETURN==
P.ABB
CRD$GT_PRESS_RETURN_MM==
P.ABC
CRD$GT_INV_BASE_SYSTEM==
P.ABD
CRD$GT_AUTOSIZER_ERROR==
P.ABE
CRD$GT_DEV_UNAVAILABLE==
P.ABF
CRD$GT_DEV_UNAVAILABLE_2==
P.ABG
CRD$GT_CANNOT_LOAD_DIAG==
P.ABH
CRD$GT_START_ERROR==P.ABI
CRD$GT_PREP_ERROR_SPACES==
P.ABJ
CRD$GT_INTERNAL_ERROR==
P.ABK
CRD$GT_DS_COMMAND_OUT==
P.ABL
CRD$GT_SAME_LINE_MESSAGE==
P.ABM
CRD$GT_NEW_LINE_MESSAGE==
P.ABN
CRD$GT_STAR_LINE_PREFIX_MESSAGE==
P.ABO
CRD$GT_STAR_LINE_SUFFIX_MESSAGE==
P.ABP
CRD$GT_SUMMARY_TITLE==
P.ABQ
CRD$GT_ALL_FAILURES=-
P.ABR
CRD$GT_ALL_PASSES== P.ABS
CRD$GT_ALL_INC_HDWR_PREP==

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P.ABT
CRD$GT_ALL_OTHERS== P.ABU
CRD$GT_INIT_ALL_PASSES==
P.ABV
MEN$GT_MENU_TEST_BEGIN==
P.ABW
MEN$GT_AUTOSIZER_BEGIN==
P.ABX
MEN$GT_AUTOSIZER_END==
P.ABY
MEN$GT_FTM_TITLE== P.ABZ
MEN$GT_FTM_MENU_SELECTION==
P.ACA
MEN$GT_FTMSEL_EXIT==P.ACB
MEN$GT_FTMSEL_PREP==P.ACC
MEN$GT_FTMSEL_TEST==P.ACD
MEN$GT_FTMSEL_SYSTEM_HDWR==
P.ACE
MEN$GT_FTMSEL_FNCTST_ALL==
P.ACF
MEN$GT_FTM_CHOICE== P.ACG
MEN$GT_FTM_PROMPT== P.ACH
MEN$GT_TMTITLE== P.ACI
MEN$GT_TMENU_SELECTION==
P.ACJ
MEN$GT_TMENU_TSTALL==
P.ACK
MEN$GT_TM_CHOICE== P.ACL
MEN$GT_TMPROMPT== P.ACM
MEN$GT_TM_MSG== P.ACN
MEN$GT_PRESS_RETURN_TM==
P.ACO
MEN$GT_CNTLC_MENU_TITLE==
P.ACP
MEN$GT_CNTLC_MENU_SELECTION==
P.ACQ
MEN$GT_CNTLC_SEL_EXIT==
P.ACB
MEN$GT_CNTLC_SEL_CONTINUE==
P.ACR
MEN$GT_CNTLC_SEL_FTMENU==
P.ACS
MEN$GT_CNTLCM_CHOICE==
P.ACT
MEN$GT_CNTLC_MENU_PROMPT==
P.ACU
MEN$GT_CNTLC_CONTINUING==
P.ACV
MEN$GT_TSTCLA_CPU== P.ACW
MEN$GT_TSTCLA_MEMORY==
P.ACX
MEN$GT_TSTCLA_DISK==P.ACY
MEN$GT_TSTCLA_TAPE==P.ACZ
MEN$GT_TSTCLA_COMM==P.ADA
MEN$GT_TSTCLA_REAL==P.ADB

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[illegible]

Li
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P.AEG
MEN\$GT_SCRMEDIA_HDWR_END==
P.AEH
MEN\$GT_SCRMEDIA_PROMPT==
P.AEI
MEN\$GT_NOALL_NONPGMEM==
P.AEJ
MEN\$GT_SUPPORT_FILE_NOT_FOUND==
P.AEK
MEN\$GT_SUPPORT_FILE_LOAD_ERR==
P.AEL
MEN\$GT_DEVTSTPREP_NAME==
P.AEM
MEN\$GT_DEVTSTPREP_TEXT==
P.AEN
MEN\$GT_DEVTSTPREP_NULL==
P.AEO
MEN\$GT_DEVTSTPREP_1==
P.AEP
MEN\$GT_DEVTSTPREP_2==
P.AEQ
MEN\$GT_DEVTSTPREP_3==
P.AER
MEN\$GT_DEVTSTPREP_4==
P.AES
MEN\$GT_DEVTSTPREP_5==
P.AET
MEN\$GT_DEVTSTPREP_6==
P.AEU
MEN\$GT_DEVTSTPREP_7==
P.AEV

PSECT SUMMARY		
Name	Bytes	Attributes
DATA	5449	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	132	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib02	164	165 166 167 168 169 178 179 185 186
		187	188	189 196 197 198 200 202 204 205
		206	207	208 214 215 216 222 223 228 229
		236	237	238 239 241 243 250 256 257 258
		259	265	266 267 269 270 271 283 292 295
		302	305	308 311 314 317 320 324 327 334
		337	340	343 346 349 352 358 361 366 369
		372	375	378 435 440 443 446 449 457 463
		466	469	472 475 478 481 484 487 490 493
		496	501	504 507 510 514 517 524 532 535
		538	545	548 551 559 562 565 568 574 578
		584	589	594 601
\$CRD_LITERALS	Macro	Lib03	126	
\$EQU_LST	Macro	Lib04	126	127
\$ER	Comptime	147		
\$MEN_LITERALS	Macro	Lib03	127	
\$MODULE	Bind	147		
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal		126	
AUTO\$K_EXIT_CONTROL_C	Literal		126	
AUTO\$K_EXIT_DUMMY_2	Literal		126	
AUTO\$K_EXIT_DUMMY_3	Literal		126	
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal		126	
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal		126	
AUTO\$K_EXIT_INTERNAL_ERROR	Literal		126	
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal		126	
AUTO\$K_EXIT_LAST_REASON	Literal		126	126
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal		126	
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal		126	
AUTO\$K_EXIT_NOERRORS_PREP	Literal		126	
CRD\$GA_CRD_MESSAGE_BUFFER	Global		155	Lib03e
CRD\$GT_2_TABS	External	Lib03		
	GlobBind	169		
CRD\$GT_ALL_FAILURES	External	Lib03		
	GlobBind	266		
CRD\$GT_ALL_INC_HDWR_PREP	External	Lib03		
	GlobBind	268		
CRD\$GT_ALL_OTHERS	External	Lib03		
	GlobBind	270		
CRD\$GT_ALL_PASSES	External	Lib03		
	GlobBind	267		
CRD\$GT_AUTO	External	Lib03		
	GlobBind	179		
CRD\$GT_AUTOSIZER_ERROR	External	Lib03		
	GlobBind	229		
CRD\$GT_CANNOT_LOAD_DIAG	External	Lib03		
	GlobBind	238		
CRD\$GT_CONTROL_C_ABORT	External	Lib03		
	GlobBind	208		
CRD\$GT_CRD_BAD_DEVICE	External	Lib03		
	GlobBind	198		
CRD\$GT_CRD_DEV_UNTESTED	External	Lib03		
	GlobBind	202		
CRD\$GT_CRD_END_MESSAGE	External	Lib03		

Symbol Type Defined Referenced ...

GlobBind 214
 CRD\$GT_CRD_ERRORS_COMPLETE External Lib03
 GlobBind 197
 CRD\$GT_CRD_EVSBA_ERROR External Lib03
 GlobBind 204
 CRD\$GT_CRD_EVSBB_ERROR External Lib03
 GlobBind 205
 CRD\$GT_CRD_FATAL_ERROR External Lib03
 GlobBind 206
 CRD\$GT_CRD_INCOMPLETE External Lib03
 GlobBind 199
 CRD\$GT_CRD_NO_ERRORS External Lib03
 GlobBind 196
 CRD\$GT_DEV_UNAVAILABLE External Lib03
 GlobBind 236
 CRD\$GT_DEV_UNAVAILABLE_2 External Lib03
 GlobBind 237
 CRD\$GT_DS_COMMAND_OUT External Lib03
 GlobBind 250
 CRD\$GT_EXIT_TO_CLI External Lib03
 GlobBind 216
 CRD\$GT_EXIT_TO_CONSOLE External Lib03
 GlobBind 215
 CRD\$GT_FAIL External Lib03
 GlobBind 188
 CRD\$GT_INIT_ALL_PASSES External Lib03
 GlobBind 271
 CRD\$GT_INTERNAL_ERROR External Lib03
 GlobBind 243
 CRD\$GT_INTERNAL_ERROR_ABORT External Lib03
 GlobBind 207
 CRD\$GT_INV_BASE_SYSTEM External Lib03
 GlobBind 228
 CRD\$GT_MENU External Lib03
 GlobBind 178
 CRD\$GT_NEW_LINE External Lib03
 GlobBind 165
 CRD\$GT_NEW_LINE_MESSAGE External Lib03
 GlobBind 257
 CRD\$GT_PASS External Lib03
 GlobBind 189
 CRD\$GT_PREP_ERROR_SPACES External Lib03
 GlobBind 241
 CRD\$GT_PRESS_RETURN External Lib03
 GlobBind 222
 CRD\$GT_PRESS_RETURN_MM External Lib03
 GlobBind 223
 CRD\$GT_RUNTIME External Lib03
 GlobBind 187
 CRD\$GT_SAME_LINE_MESSAGE External Lib03
 GlobBind 256
 CRD\$GT_SLASH External Lib03
 GlobBind 167

Symbol	Type	Defined	Referenced ...
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CRD\$GT_SPACE_AND_SPACE	External	Lib03	
GlobBind	164		
CRD\$GT_START_ERROR	External	Lib03	
GlobBind	239		
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	External	Lib03	
GlobBind	258		
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	External	Lib03	
GlobBind	259		
CRD\$GT_SUMMARY_TITLE	External	Lib03	
GlobBind	264		
CRD\$GT_TAB	External	Lib03	
GlobBind	166		
CRD\$GT_TESTING_DEVICE	External	Lib03	
GlobBind	185		
CRD\$GT_TESTING_STARTED	External	Lib03	
GlobBind	186		
CRD\$GT_UNKNOWN	External	Lib03	
GlobBind	168		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal		126
CRD\$K_ACTION_RANGE_ERROR	Literal		126
CRD\$K_ADVANCE_DIAGNOSTIC	Literal		126
CRD\$K_ADVANCE_GENERAL_COM	Literal		126
CRD\$K_ADVANCE_STATE	Literal		126
CRD\$K_ALLOCATION_ERROR	Literal		126
CRD\$K_ASSIGN_PTABLE_PTRS	Literal		126
CRD\$K_AUTOSIZER_ERROR	Literal		126
CRD\$K_AUTOSIZER_SET_FLAGS	Literal		126
CRD\$K_BAD_ACTION_NUMBER	Literal		126
CRD\$K_BAD_TYPECODE_ERROR	Literal		126
CRD\$K_BASE_SYSTEM_IDC	Literal		126
CRD\$K_BASE_SYSTEM_LESI	Literal		126
CRD\$K_BASE_SYSTEM_NULL	Literal		126
CRD\$K_BASE_SYSTEM_UDA_0	Literal		126
CRD\$K_BASE_SYSTEM_UDA_1	Literal		126
CRD\$K_BASE_SYSTEM_UDA_2	Literal		126
CRD\$K_BASE_SYSTEM_UDA_3	Literal		126
CRD\$K_CRD_INITIALIZATION	Literal		126
CRD\$K_CRD_MESSAGE_BUFFER_LEN	Literal	Lib03	155
CRD\$K_CREATE_HST	Literal		126
CRD\$K_DATA_LENGTH_ERROR	Literal		126
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal		126
CRD\$K_DDB_BLINK	Literal		126
CRD\$K_DDB_FLINK	Literal		126
CRD\$K_DDB_LAST_ENTRY	Literal		126
CRD\$K_DDB_MEMORY_SIZE	Literal		126
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal		126
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal		126
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal		126
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal		126
CRD\$K_DDB_PTABLE_ENTRY	Literal		126
CRD\$K_DDB_STATUS	Literal		126
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal		126
CRD\$K_DEVICE_NAME	Literal		126

Symbol	Type	Defined	Referenced ...
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CRD\$K_DIAGNOSTIC_ERROR	Literal	126	
CRD\$K_DIAGNOSTIC_NAME	Literal	126	
CRD\$K_DONE_GENERAL_COMS	Literal	126	
CRD\$K_DO_NOTHING	Literal	126	
CRD\$K_DUMMY_10	Literal	126	
CRD\$K_DUMMY_11	Literal	126	
CRD\$K_DUMMY_12	Literal	126	
CRD\$K_DUMMY_13	Literal	126	
CRD\$K_DUMMY_3	Literal	126	
CRD\$K_DUMMY_4	Literal	126	
CRD\$K_DUMMY_5	Literal	126	
CRD\$K_DUMMY_6	Literal	126	
CRD\$K_DUMMY_7	Literal	126	
CRD\$K_DUMMY_8	Literal	126	
CRD\$K_DUMMY_9	Literal	126	
CRD\$K_EXIT_CRD	Literal	126	
CRD\$K_HOOK_POINT	Literal	126	
CRD\$K_HS_INTERNAL_ERROR	Literal	126	
CRD\$K_IDC_EVDLB	Literal	126	
CRD\$K_IDC_EVDLC	Literal	126	
CRD\$K_IDC_EVDLD	Literal	126	
CRD\$K_IDC_EVRAD_0	Literal	126	
CRD\$K_IDC_EVRAD_1	Literal	126	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	126	
CRD\$K_INTERNAL_ERROR	Literal	126	
CRD\$K_LAST_ACTION_ROUTINE	Literal	126	
CRD\$K_LAST_ENTRY	Literal	126	
CRD\$K_LAST_FUNCTION	Literal	126	
CRD\$K_LAST_HOOK_POINT	Literal	126	
CRD\$K_LAST_INTERNAL_ERROR	Literal	126	
CRD\$K_LAST_TYPE	Literal	126	
CRD\$K_LESI_ENWCA	Literal	126	
CRD\$K_LESI_EVRMB_0	Literal	126	
CRD\$K_LESI_EVRMB_1	Literal	126	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	126	
CRD\$K_LEVEL_4_PASSED	Literal	126	
CRD\$K_LOAD_AUTOSIZER	Literal	126	
CRD\$K_LOAD_ERROR	Literal	126	
CRD\$K_LOAD_GENERAL_COM	Literal	126	
CRD\$K_LOAD_LOAD_COM	Literal	126	
CRD\$K_LOAD_SELECT_COM	Literal	126	
CRD\$K_LOAD_SET_EVENT_COM	Literal	126	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	126	
CRD\$K_LOAD_START_COM	Literal	126	
CRD\$K_LOAD_SUP_FILE	Literal	126	
CRD\$K_MM_INTERNAL_ERROR	Literal	126	
CRD\$K_NEW_LINE	Literal	126	
CRD\$K_PREPARATION_ERROR	Literal	126	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	126	
CRD\$K_RUNTIME	Literal	126	
CRD\$K_SAME_LINE	Literal	126	
CRD\$K_SET_EVENT_ARGS	Literal	126	
CRD\$K_SET_FLAGS_ARGS	Literal	126	

Symbol	Type	Defined	Referenced ...
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CRD\$K_SET_UP_DIAGNOSTIC	Literal	126	
CRD\$K_START	Literal	126	
CRD\$K_START_AUTOSIZER	Literal	126	
CRD\$K_START_ERROR	Literal	126	
CRD\$K_START_QUALIFIERS	Literal	126	
CRD\$K_STAR_LINE	Literal	126	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	126	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	126	
CRD\$K_STATE_ASSIGN_PTABLE_PIRS	Literal	126	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	126	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	126	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	126	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	126	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	126	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	126	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	126	
CRD\$K_STATE_DUMMY_1	Literal	126	
CRD\$K_STATE_DUMMY_10	Literal	126	
CRD\$K_STATE_DUMMY_12	Literal	126	
CRD\$K_STATE_DUMMY_13	Literal	126	
CRD\$K_STATE_DUMMY_2	Literal	126	
CRD\$K_STATE_DUMMY_3	Literal	126	
CRD\$K_STATE_DUMMY_4	Literal	126	
CRD\$K_STATE_DUMMY_6	Literal	126	
CRD\$K_STATE_DUMMY_7	Literal	126	
CRD\$K_STATE_DUMMY_8	Literal	126	
CRD\$K_STATE_EXIT_CRD	Literal	126	
CRD\$K_STATE_INTERNAL_ERROR	Literal	126	
CRD\$K_STATE_LAST_STATE	Literal	126	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	126	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	126	
CRD\$K_STATE_LOAD_ERROR	Literal	126	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	126	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	126	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	126	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	126	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	126	
CRD\$K_STATE_LOAD_START_COM	Literal	126	
CRD\$K_STATE_PREPARATION_ERROR	Literal	126	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	126	
CRD\$K_STATE_START	Literal	126	
CRD\$K_STATE_START_AUTOSIZER	Literal	126	
CRD\$K_STATE_START_ERROR	Literal	126	
CRD\$K_TEST_START_TEXT	Literal	126	
CRD\$K_TQ_INTERNAL_ERROR	Literal	126	
CRD\$K_TYPECODE	Literal	126	
CRD\$K_UDA_0_EVDLB	Literal	126	
CRD\$K_UDA_0_EVDLC	Literal	126	
CRD\$K_UDA_0_EVDLD	Literal	126	
CRD\$K_UDA_0_EVRLA_0	Literal	126	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	126	
CRD\$K_UDA_1_EVDLB	Literal	126	
CRD\$K_UDA_1_EVDLC	Literal	126	

Symbol	Type	Defined	Referenced ...
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CRD\$K_UA_1_EVDLD	Literal	126	
CRD\$K_UA_1_EVRLA_0	Literal	126	
CRD\$K_UA_1_EVRLA_1	Literal	126	
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal	126	
CRD\$K_UA_2_EVDLB	Literal	126	
CRD\$K_UA_2_EVDLC	Literal	126	
CRD\$K_UA_2_EVDLD	Literal	126	
CRD\$K_UA_2_EVRLA_0	Literal	126	
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	126	
CRD\$K_UA_3_EVDLB	Literal	126	
CRD\$K_UA_3_EVDLC	Literal	126	
CRD\$K_UA_3_EVDLD	Literal	126	
CRD\$K_UA_3_EVRLA_0	Literal	126	
CRD\$K_UA_3_EVRLA_1	Literal	126	
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	126	
GET1ST	Macro	Lib04	126 127
GET2ND	Unbound		126 127
H\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	126	
H\$K_ACTION_ADVANCE_GENERAL_COM	Literal	126	
H\$K_ACTION_ADVANCE_STATE	Literal	126	
H\$K_ACTION_CHANGE_TABLE	Literal	126	
H\$K_ACTION_DIAGNOSTIC_ERROR	Literal	126	
H\$K_ACTION_DONE_GENERAL_COMS	Literal	126	
H\$K_ACTION_DO_NOTHING	Literal	126	
H\$K_ACTION_DUMMY_3	Literal	126	
H\$K_ACTION_DUMMY_4	Literal	126	
H\$K_ACTION_DUMMY_5	Literal	126	
H\$K_ACTION_DUMMY_6	Literal	126	
H\$K_ACTION_INIT_HS	Literal	126	
H\$K_ACTION_INTERNAL_ERROR	Literal	126	
H\$K_ACTION_LAST_ACTION	Literal	126	
H\$K_ACTION_LOAD_ERROR	Literal	126	
H\$K_ACTION_LOAD_GENERAL_COM	Literal	126	
H\$K_ACTION_LOAD_LOAD_COM	Literal	126	
H\$K_ACTION_LOAD_SELECT_COM	Literal	126	
H\$K_ACTION_LOAD_SET_EVENT_COM	Literal	126	
H\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	126	
H\$K_ACTION_LOAD_START_COM	Literal	126	
H\$K_ACTION_PREPARATION_ERROR	Literal	126	
H\$K_ACTION_START_ERROR	Literal	126	
H\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	126	
H\$K_STATE_ADVANCE_GENERAL_COM	Literal	126	
H\$K_STATE_CHANGE_TABLE	Literal	126	
H\$K_STATE_DIAGNOSTIC_ERROR	Literal	126	
H\$K_STATE_DIAGNOSTIC_RUNNING	Literal	126	
H\$K_STATE_DONE_GENERAL_COMS	Literal	126	
H\$K_STATE_DUMMY_1	Literal	126	
H\$K_STATE_DUMMY_2	Literal	126	
H\$K_STATE_DUMMY_3	Literal	126	
H\$K_STATE_DUMMY_4	Literal	126	
H\$K_STATE_DUMMY_6	Literal	126	
H\$K_STATE_INIT_HS	Literal	126	
H\$K_STATE_INTERNAL_ERROR	Literal	126	

Symbol	Type	Defined	Referenced ...
HS\$K_STATE_LAST_STATE	Literal	126	
HS\$K_STATE_LOAD_ERROR	Literal	126	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	126	
HS\$K_STATE_LOAD_LOAD_COM	Literal	126	
HS\$K_STATE_LOAD_SELECT_COM	Literal	126	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	126	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	126	
HS\$K_STATE_LOAD_START_COM	Literal	126	
HS\$K_STATE_PREPARATION_ERROR	Literal	126	
HS\$K_STATE_START_ERROR	Literal	126	
MEN\$GK_TEST_QUEUE	Literal	127	
MEN\$GT_ASSISTANCE_MSG	External	Lib03	
GlobBind		480	
MEN\$GT_AUTOSIZER_BEGIN	External	Lib03	
GlobBind		291	
MEN\$GT_AUTOSIZER_END	External	Lib03	
GlobBind		294	
MEN\$GT_CALL_FLDSRV	External	Lib03	
GlobBind		500	
MEN\$GT_CNTLCH_CHOICE	External	Lib03	
GlobBind		371	
MEN\$GT_CNTLCH_CONTINUING	External	Lib03	
GlobBind		377	
MEN\$GT_CNTLCH_MENU_PROMPT	External	Lib03	
GlobBind		374	
MEN\$GT_CNTLCH_MENU_SELECTION	External	Lib03	
GlobBind		360	
MEN\$GT_CNTLCH_MENU_TITLE	External	Lib03	
GlobBind		357	
MEN\$GT_CNTLCH_SEL_CONTINUE	External	Lib03	
GlobBind		365	
MEN\$GT_CNTLCH_SEL_EXIT	External	Lib03	
GlobBind		363	
MEN\$GT_CNTLCH_SEL_FTMENU	External	Lib03	
GlobBind		368	
MEN\$GT_CTRLCH_FNCTST	External	Lib03	
GlobBind		456	
MEN\$GT_DEVTSTPREP_1	External	Lib03	
GlobBind		567	
MEN\$GT_DEVTSTPREP_2	External	Lib03	
GlobBind		573	
MEN\$GT_DEVTSTPREP_3	External	Lib03	
GlobBind		577	
MEN\$GT_DEVTSTPREP_4	External	Lib03	
GlobBind		583	
MEN\$GT_DEVTSTPREP_5	External	Lib03	
GlobBind		588	
MEN\$GT_DEVTSTPREP_6	External	Lib03	
GlobBind		593	
MEN\$GT_DEVTSTPREP_7	External	Lib03	
GlobBind		600	
MEN\$GT_DEVTSTPREP_NAME	External	Lib03	
GlobBind		558	

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MEN$GT_DEVTSTPREP_NULL    External Lib03
    GlobBind    564
MEN$GT_DEVTSTPREP_TEXT    External Lib03
    GlobBind    561
MEN$GT_END_OF_LIST        External Lib03
    GlobBind    448
MEN$GT_FAILED_HDWR_NAME    External Lib03
    GlobBind    506
MEN$GT_FAILED_ONL_AUTOSIZER External Lib03
    GlobBind    516
MEN$GT_FNCTST_CMPL_ERR    External Lib03
    GlobBind    474
MEN$GT_FNCTST_CMPL_NOERR   External Lib03
    GlobBind    468
MEN$GT_FNCTST_INCMPL_ERR   External Lib03
    GlobBind    471
MEN$GT_FNCTST_INCMPL_NOERR External Lib03
    GlobBind    477
MEN$GT_FNCTST_TESTSTRT_TEXT External Lib03
    GlobBind    492
MEN$GT_FTMENU_SELECTION    External Lib03
    GlobBind    304
MEN$GT_FTMPROMPT           External Lib03
    GlobBind    326
MEN$GT_FTMSEL_EXIT         External Lib03
    GlobBind    307    363a
MEN$GT_FTMSEL_FNCTST_ALL   External Lib03
    GlobBind    319
MEN$GT_FTMSEL_PREP         External Lib03
    GlobBind    310
MEN$GT_FTMSEL_SYSTEM_HDWR  External Lib03
    GlobBind    316
MEN$GT_FTMSEL_TEST         External Lib03
    GlobBind    313
MEN$GT_FTMTITLE            External Lib03
    GlobBind    301
MEN$GT_FTM_CHOICE          External Lib03
    GlobBind    323
MEN$GT_FUNCTEST_BEGIN      External Lib03
    GlobBind    462
MEN$GT_INVOPERINPUT        External Lib03
    GlobBind    503
MEN$GT_MENUTEST_ABORTED    External Lib03
    GlobBind    483
MEN$GT_MENUTEST_BEGIN      External Lib03
    GlobBind    282
MEN$GT_NOALL_NONPGMEM      External Lib03
    GlobBind    544
MEN$GT_NOSUPPORT           External Lib03
    GlobBind    445
MEN$GT_NULL                External Lib03
    GlobBind    495
MEN$GT_OPERATOR_ABORT      External Lib03

```

```

GlobBind 486
MEN$GT_OPERATOR_STOP External Lib03
GlobBind 489
MEN$GT_PREP_ERROR_TEXT External Lib03
GlobBind 509
MEN$GT_PREP_ERROR_TEXT_NO_USER External Lib03
GlobBind 513
MEN$GT_PRESS_RETURN_TM External Lib03
GlobBind 351
MEN$GT_RUNTIME_TOTAL External Lib03
GlobBind 465
MEN$GT_SCRMEDIA_HDWR External Lib03
GlobBind 531
MEN$GT_SCRMEDIA_HDWR_END External Lib03
GlobBind 534
MEN$GT_SCRMEDIA_MSG External Lib03
GlobBind 523
MEN$GT_SCRMEDIA_PROMPT External Lib03
GlobBind 537
MEN$GT_SUPPORTED External Lib03
GlobBind 442
MEN$GT_SUPPORT_FILE_LOAD_ERR External Lib03
GlobBind 550
MEN$GT_SUPPORT_FILE_NOT_FOUND External Lib03
GlobBind 547
MEN$GT_SYSHDWR_TITLE External Lib03
GlobBind 434
MEN$GT_SYSTEM_HDWR_TEXT External Lib03
GlobBind 439
MEN$GT_TMENU_SELECTION External Lib03
GlobBind 336
MEN$GT_TMENU_TSTALL External Lib03
GlobBind 339
MEN$GT_TMPROMPT External Lib03
GlobBind 345
MEN$GT_TMTITLE External Lib03
GlobBind 333
MEN$GT_TM_CHOICE External Lib03
GlobBind 342
MEN$GT_TM_MSG External Lib03
GlobBind 348
MEN$GT_TSTCLA_ALL External Lib03
GlobBind 428
MEN$GT_TSTCLA_CARD External Lib03
GlobBind 416
MEN$GT_TSTCLA_COMM External Lib03
GlobBind 400
MEN$GT_TSTCLA_CPU External Lib03
GlobBind 384
MEN$GT_TSTCLA_DISK External Lib03
GlobBind 392
MEN$GT_TSTCLA_IOADAP External Lib03
GlobBind 420

```

65
20

Symbol	Type	Defined	Referenced ...
MEN\$GT_TSTCLA_MEMORY	External	Lib03	
GlobBind	388		
MEN\$GT_TSTCLA_NULLNAME	External	Lib03	
GlobBind	424	428a	
MEN\$GT_TSTCLA_PRINTER	External	Lib03	
GlobBind	412		
MEN\$GT_TSTCLA_REAL	External	Lib03	
GlobBind	404		
MEN\$GT_TSTCLA_TAPE	External	Lib03	
GlobBind	396		
MEN\$GT_TSTCLA_TERM	External	Lib03	
GlobBind	408		
MEN\$K_CNTLC_SEL_CONTINUE	Literal		127
MEN\$K_CNTLC_SEL_EXIT	Literal		127
MEN\$K_CNTLC_SEL_FTMENU	Literal		127
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal		127
MEN\$K_DEVTSTPREP_1	Literal		127
MEN\$K_DEVTSTPREP_2	Literal		127
MEN\$K_DEVTSTPREP_3	Literal		127
MEN\$K_DEVTSTPREP_4	Literal		127
MEN\$K_DEVTSTPREP_5	Literal		127
MEN\$K_DEVTSTPREP_6	Literal		127
MEN\$K_DEVTSTPREP_7	Literal		127
MEN\$K_DEVTSTPREP_NULL	Literal		127
MEN\$K_FTMRET_EXIT	Literal		127
MEN\$K_FTMRET_FAILURE	Literal		127
MEN\$K_FTMRET_MENU	Literal		127
MEN\$K_FTMRET_TEST	Literal		127
MEN\$K_FTMSEL_EXIT	Literal		127
MEN\$K_FTMSEL_FNCTST_ALL	Literal		127
MEN\$K_FTMSEL_LAST_ENTRY	Literal		127
MEN\$K_FTMSEL_PREP	Literal		127
MEN\$K_FTMSEL_SYSTEM_HDWR	Literal		127
MEN\$K_FTMSEL_TEST	Literal		127
MEN\$K_HS_STATE_TABLE	Literal		126
MEN\$K_MM_STATE_TABLE	Literal		126
MEN\$K_PREP_ERROR_TEXT_LEN	Literal		127
MEN\$K_SELDEV_NUMB_START	Literal		127
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal		127
MEN\$K_TQ_STATE_TABLE	Literal		126
MEN\$K_TSTCLA_ALL	Literal		127
MEN\$K_TSTCLA_CARD	Literal		127
MEN\$K_TSTCLA_COMM	Literal		127
MEN\$K_TSTCLA_CPU	Literal		127
MEN\$K_TSTCLA_DISK	Literal		127
MEN\$K_TSTCLA_IO_ADAPTOR	Literal		127
MEN\$K_TSTCLA_LAST_ENTRY	Literal		127
MEN\$K_TSTCLA_MEMORY	Literal		127
MEN\$K_TSTCLA_NULL	Literal		127
MEN\$K_TSTCLA_PRINTER	Literal		127
MEN\$K_TSTCLA_REAL	Literal		127
MEN\$K_TSTCLA_TAPE	Literal		127
MEN\$K_TSTCLA_TERM	Literal		127

.....

```

MEN$K_TSTCTG_CPU Literal 127
MEN$K_TSTCTG_IO_ADAPTOR Literal 127
MEN$K_TSTCTG_IO_CONTROLLER Literal 127
MEN$K_TSTCTG_IO_UNIT Literal 127
MEN$K_TSTCTG_MEMORY Literal 127
MEN$K_TSTCTG_NULL Literal 127
MEN$K_TSTTXT_DEVNAM_SZ Literal 127
MEN$K_TSTTXT_TSTCLA_SZ Literal 127 386 390 394 398 402 406 410 414 418 422
426
MEN$K_TSTTXT_UTNAM_SZ Literal 127
MENUS$K_EXIT_AUTOSIZER_ERROR Literal 126
MENUS$K_EXIT_INTERNAL_ERROR Literal 126
MENUS$K_EXIT_LAST_REASON Literal 126
MENUS$K_EXIT_OPERATOR_ABORT Literal 126
MENUS$K_EXIT_OPERATOR_STOP Literal 126
MENUS$K_EXIT_SUP_FILE_LOAD_ERR Literal 126
MENUS$K_EXIT_SUP_FILE_NOT_FOUND Literal 126
MM$K_ACTION_ADVANCE_STATE Literal 126
MM$K_ACTION_AUTOSIZER_ERROR Literal 126
MM$K_ACTION_BUILD_DDBS Literal 126
MM$K_ACTION_BUILD_HSTS Literal 126
MM$K_ACTION_CHANGE_TABLE Literal 126
MM$K_ACTION_DONE_INITS Literal 126
MM$K_ACTION_DO_NOTHING Literal 126
MM$K_ACTION_DUMMY_3 Literal 126
MM$K_ACTION_DUMMY_4 Literal 126
MM$K_ACTION_DUMMY_5 Literal 126
MM$K_ACTION_DUMMY_6 Literal 126
MM$K_ACTION_DUMMY_7 Literal 126
MM$K_ACTION_DUMMY_8 Literal 126
MM$K_ACTION_INTERNAL_ERROR Literal 126
MM$K_ACTION_LAST_ACTION Literal 126
MM$K_ACTION_LOAD_AUTOSIZER Literal 126
MM$K_ACTION_MENU_PROMPT Literal 126
MM$K_ACTION_PRINT_MENU Literal 126
MM$K_ACTION_PRINT_MENU_HEADING Literal 126
MM$K_ACTION_SET_FLAGS_AUTOSIZER Literal 126
MM$K_ACTION_START_AUTOSIZER Literal 126
MM$K_STATE_AUTOSIZER_ERROR Literal 126
MM$K_STATE_AUTOSIZER_RUNNING Literal 126
MM$K_STATE_BUILD_DDBS Literal 126
MM$K_STATE_BUILD_HSTS Literal 126
MM$K_STATE_CHANGE_TABLE Literal 126
MM$K_STATE_DONE_INITS Literal 126
MM$K_STATE_DUMMY_1 Literal 126
MM$K_STATE_DUMMY_2 Literal 126
MM$K_STATE_DUMMY_3 Literal 126
MM$K_STATE_DUMMY_5 Literal 126
MM$K_STATE_DUMMY_7 Literal 126
MM$K_STATE_DUMMY_8 Literal 126
MM$K_STATE_INTERNAL_ERROR Literal 126
MM$K_STATE_LAST_STATE Literal 126
MM$K_STATE_LOAD_AUTOSIZER Literal 126

```

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

MM\$K_STATE_MENU_PROMPT	Literal	126
MM\$K_STATE_PRINT_MENU	Literal	126
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	126
MM\$K_STATE_START	Literal	126
MM\$K_STATE_START_AUTOSIZER	Literal	126
MODNAM	Macro Lib01	147
NUL2ND	Macro Lib04	126
TQ\$K_ACTION_ADVANCE_STATE	Literal	126
TQ\$K_ACTION_CHANGE_TABLE	Literal	126
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	126
TQ\$K_ACTION_DO_NOTHING	Literal	126
TQ\$K_ACTION_DUMMY_3	Literal	126
TQ\$K_ACTION_DUMMY_4	Literal	126
TQ\$K_ACTION_DUMMY_5	Literal	126
TQ\$K_ACTION_GET_DDB	Literal	126
TQ\$K_ACTION_INIT_TQ	Literal	126
TQ\$K_ACTION_INTERNAL_ERROR	Literal	126
TQ\$K_ACTION_LAST_ACTION	Literal	126
TQ\$K_STATE_CHANGE_TABLE	Literal	126
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	126
TQ\$K_STATE_DUMMY_1	Literal	126
TQ\$K_STATE_DUMMY_2	Literal	126
TQ\$K_STATE_DUMMY_3	Literal	126
TQ\$K_STATE_DUMMY_4	Literal	126
TQ\$K_STATE_DUMMY_5	Literal	126
TQ\$K_STATE_GET_DDB	Literal	126
TQ\$K_STATE_INIT_TQ	Literal	126
TQ\$K_STATE_INTERNAL_ERROR	Literal	126
TQ\$K_STATE_LAST_STATE	Literal	126

CROSS REFERENCE MAP

```

Line #      Event File ...
-----
   1 Source (start) DISK$DIAGPACK03:[DS.CRD.V020]CRDTEXT.B32;1
   2 Module CRDTEXT
110 Library #1 DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
113 Library #2 DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
116 Library #3 DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
119 Library #4 SYS$COMMON:[SYSLIB]LIB.L32;2
604 Eludom CRDTEXT

```

ZZ-
CRD
01-

..... P
..... P
..... P

54
2154
2154
21

KEY TO REFERENCE TYPE FLAGS

. Fetch
= Store
c Routine call
a Address use
a Indirect use
e External, external routine, or external literal declaration
f Forward or forward routine declaration
h Condition handler enabling
m Map declaration
u Undeclare declaration

Library Statistics

File	Symbols			Pages	Processing
	Total	Loaded	Percent		
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	1	0	94	00:00.1
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	131	26	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2			18619	3	0
				1000	00:04.2

COMMAND QUALIFIERS

BLISS CRDTEXT.B32/LIST=CRDTEXT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDTEXT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 0 code + 5581 data bytes
Run Time: 00:29.2
Elapsed Time: 00:54.2
Lines/CPU Min: 1239
Lexemes/CPU-Min: 47445
Memory Used: 276 pages
Compilation Complete

; R


```
: 0001 0 *TITLE '*** CRDTQACT Module'
: 0002 0 MODULE CRDTQACT ( ! Contains action routines for Test Queue
: 0003 0 IDENT = '01-00'
: 0004 0 ) =
: 0005 0 !**
: 0006 0 ! COPYRIGHT (c) 1980, 1981
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 ! REMAIN IN DEC.
: 0016 0 !
: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0
```

ZZ-ENSAB-2.0 *** CRDTQACT Module
CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746
01-00 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (2)

C 8

19-Sep-1985

Fiche 6 Frame C8

Sequence 1123

Page 2

```
: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : This module contains those action routines needed by the Test Queue State Table.
: 0032 0 :
: 0033 0 : Author:
: 0034 0 :
: 0035 0 : Jack Stansbury
: 0036 0 :
: 0037 0 : Creation Date:
: 0038 0 :
: 0039 0 : July 30, 1982
: 0040 0 :
: 0041 0 : Version:
: 0042 0 :
: 0043 0 : 6.9
: 0044 0 :
: 0045 0 : Modified By:
: 0046 0 :
: 0047 0 : None
: 0048 0 : -
```

ZZ-ENSAB-2.0 Libraries
CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746
01-00 Libraries 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (3)

D 8
19-Sep-1985

Fiche 6 Frame D8
Page 3

Sequence 1124

```
; 0049 0 xSBTTL 'Libraries'
; 0050 1 BEGIN      ! Begin the CRDTQACT module
; 0051 1
; 0052 1 LIBRARY
; 0053 1 '$DS';     ! Use Ds.L32 first
; 0054 1
; 0055 1 LIBRARY
; 0056 1 '$Diag';   ! Use Diag.L32 second
; 0057 1
; 0058 1 LIBRARY
; 0059 1 '$CRD';    ! Use CRD.L32 third
; 0060 1
; 0061 1 LIBRARY
; 0062 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```
; 0063 1 xSBTTL 'Table of Contents'
; 0064 1
; 0065 1 FORWARD ROUTINE
; 0066 1 TQ$Init_TQ : ADDRESSING_MODE (LONG_RELATIVE),
; 0067 1 TQ$Get_DDB : ADDRESSING_MODE (LONG_RELATIVE),
; 0068 1 TQ$Change_Table : ADDRESSING_MODE (LONG_RELATIVE),
; 0069 1 TQ$Done_Test_Queue : ADDRESSING_MODE (LONG_RELATIVE),
; 0070 1 TQ$Internal_Error : ADDRESSING_MODE (LONG_RELATIVE);
```

```

: 0071 1 $SBTTL 'Included Macros and Literals'
: 0072 1
: 0073 1 $DS_DSADef;      ! Define the DSA bits
: 0074 1 $CRD_Literals;   ! Define the CRD literals

```

Z
C
0
:
:
:
:
:
:
:

```
; 0075 1 xSBTTL 'Psect Definitions'
; 0076 1
; 0077 1 PSECT
; 0078 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0079 1
; 0080 1 PSECT
; 0081 1     CODE    = Code (   EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0082 1
; 0083 1 PSECT
; 0084 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0085 1
; 0086 1 PSECT
; 0087 1     GLOBAL - Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

		H 8					
ZZ-ENSAB-2.0	Module-Global Static Storage	19-Sep-1985		Fiche 6	Frame H8	Sequence 1128	
CRDTQACT ***	CRDTQACT Module	19-Sep-1985 17:11:00	VAX-11 Bliss-32 V4.1-746	Page 7			
01-00	Module-Global Static Storage	3-Jan-1985 17:02:18	[DS.CRD.V020]CRDTQACT.B32;1	(7)			

```

; 0088 1 xSBTTL 'Module-Global Static Storage'
; 0089 1
; 0090 1 ModNam ('CRDTQACT'); ! Module name for ErrSup macro

```

Page 8
(8)


```

: 0116 2 BEGIN      ! Routine TQ$Init_TQ
: 0117 2 BIND
: 0118 2   Test_Queue_Table = (.MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]) : VECTOR [, LONG];
: 0119 2
: 0120 2 REGISTER
: 0121 2   DDB_Ptr,
: 0122 2   TQT_Index;
: 0123 2
: 0124 2 IF (.CRD$GB_CRD_Debug) THEN
: 0125 2   INCR TQ_Index FROM 0 TO (.MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries] - 1) DO
: 0126 3   BEGIN
P 0127 3     $CRD_Print ($ASCIC ('*** Test_Queue_Table [!UL] = !XL!/''),
: 0128 3     .TQ_Index, .Test_Queue_Table [.TQ_Index]);
: 0129 2   END;
: 0130 2
: 0131 2 !*
: 0132 2 ! Start at entry #0 in the Test Queue Table
: 0133 2 !-
: 0134 2
: 0135 2 CRD$GL_TQ_Current_TQ_Entry = 0;
: 0136 2
: 0137 2 !*
: 0138 2 ! Initialize all the status bits in all the DDBs in the Test Queue Table.
: 0139 2 !-
: 0140 2
: 0141 2 TQT_Index = 0;
: 0142 2
: 0143 2 WHILE ((DDB_Ptr = .Test_Queue_Table [.TQT_Index]) NEQ 0) DO
: 0144 3   BEGIN
: 0145 3   CRD$Init_DDB_Status (.DDB_Ptr);
: 0146 3   TQT_Index = .TQT_Index + 1;
: 0147 2   END;
: 0148 2
: 0149 3 RETURN (CRD$K_Repeat_Turing)
: 0150 1 END;      ! Routine TQ$Init_TQ

```

```
.TITLE CRDTQACT *** CRDTQACT Module
.IDENT \01-00\
```

```
.PSECT DATA,NOWRT,NOEXE, SHR,2
```

```

65 54 43 41 51 54 44 52 43 08 00000 P.AAA: .ASCII <8>\CRDTQACT\
20 75 65 75 51 5F 74 73 65 54 20 2A 2A 2A 22 00009 P.AAB: .ASCII \ ;** Test_Queue_Table [!UL] = !XL!\
20 3D 20 5D 4C 55 21 5B 20 65 6C 62 61 54 5F 00018 ;
    2F 21 4C 58 21 00027 ;

```

```

DSA$AL_APTMAIL=      65024
DSA$GL_FLAGS=        65024
DSA$GL_APTCOM=       65028
DSA$GL_PASSES=       65032
DSA$GL_UNITS=        65036
DSA$GL_SECTNO=       65040
DSA$GL_SID=          65044
DSA$GL_MSGTYP=       65088

```

```

DSAGL_ERRNO=          65092
DSAGL_EVENT=          65096
DSAGL_SUBTNO=         65100
DSAGL_TESTNO=         65104
DSAGL_PASSNO=         65108
DSAGL_DEVLEN=         65112
DSAGL_DEVNAM=         65116
DSAGL_MSGPTR=         65128
$MODULE=              P.AAA
.EXTRN  TQ$INIT_TQ, TQ$GET_DDB
.EXTRN  TQ$CHANGE_TABLE
.EXTRN  TQ$DONE_TEST_QUEUE
.EXTRN  TQ$INTERNAL_ERROR
.EXTRN  MEN$GA_TEST_QUEUE
.EXTRN  CRD$GB_CRD_DEBUG
.EXTRN  CRD$PRINT, CRD$GL_TQ_CURRENT_TQ_ENTRY
.EXTRN  CRD$INIT_DDB_STATUS

```

```
.PSECT CODE,NOWRT, SHR, PIC,2
```

```

001C 00000 .ENTRY TQ$INIT TQ, Save R2,R3,R4 ; 0093
54 00000000G EF D0 00002 MOVL MEN$GA_TEST_QUEUE+4, R4 ; 0118
26 00000000G EF E9 00009 BLBC CRD$GB_CRD_DEBUG, 3$ ; 0124
53 00000000G EF D0 00010 MOVL MEN$GA_TEST_QUEUE, R3 ; 0125
52 01 CE 00017 MNEGL #1, TQ_INDEX ;
16 11 0001A BRB 2$ ;
6442 DD 0001C 1$: PUSHL (R4)[TQ_INDEX] ; 0128
52 DD 0001F PUSHL TQ_INDEX ;
00000000 EF 9F 00021 PUSHAB P.AAB ;
01 DD 00027 PUSHL #1 ;
1A DD 00029 PUSHL #26 ;
00000000G FF 05 FB 0002B CALLS #5, aCRD$PRINT ;
E6 52 53 F2 00032 2$: AOBLS R3, TQ_INDEX, 1$ ; 0125
00000000G EF D4 00036 3$: CLRL CRD$GL_TQ_CURRENT_TQ_ENTRY ; 0135
53 D4 0003C CLRL TQT_INDEX ; 0141
0B 11 0003E BRB 5$ ; 0143
52 DD 00040 4$: PUSHL DDB_PTR ; 0145
00000000G EF 01 FB 00042 CALLS #1, CRD$INIT_DDB_STATUS ;
53 D6 00049 INCL TQT_INDEX ; 0146
52 6443 D0 0004B 5$: MOVL (R4)[TQT_INDEX], DDB_PTR ; 0143
EF 12 0004F BNEQ 4$ ;
50 02 D0 00051 MOVL #2, R0 ; 0149
04 00054 RET ; 0150

```

```

: Routine Size: 85 bytes.      Routine Base: CODE + 0000

```

[illegible]

```

: 0151 1 xSBTTL 'TQ$Get_DDB Routine'
: 0152 1
: 0153 1 GLOBAL ROUTINE TQ$Get_DDB =
: 0154 1
: 0155 1 !*+
: 0156 1 ! Functional Description:
: 0157 1 !
: 0158 1 ! Describe function of routine
: 0159 1 !
: 0160 1 ! Formal Input Parameters:
: 0161 1 !
: 0162 1 ! None
: 0163 1 !
: 0164 1 ! Formal Output Parameters:
: 0165 1 !
: 0166 1 ! None
: 0167 1 !
: 0168 1 ! Side Effects:
: 0169 1 !
: 0170 1 ! None
: 0171 1 !
: 0172 1 ! Completion Codes:
: 0173 1 !
: 0174 1 ! None
: 0175 1 ! --

```

```

: 0176 2 BEGIN      ! Routine TQ$Get_DDB
: 0177 2 BIND
: 0178 2   Test_Queue_Table = (.MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]) : VECTOR [, LONG];
: 0179 2
: 0180 2   IF (.Test_Queue_Table [.CRD$GL_TQ_Current_TQ_Entry] EQL 0) THEN
: 0181 3     BEGIN
: 0182 3       CRD$GL_TQ_Current_State = TQ$K_State_Done_Test_Queue;
: 0183 3     END
: 0184 2   ELSE
: 0185 3     BEGIN
: 0186 3       IF (.CRD$GB_CRD_Debug) THEN
: 0187 4         BEGIN
: 0188 4           MAP
: 0189 4             CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
: 0190 4
: 0191 4           IF (.CRD$GA_HS_Current_DDB_Ptr NEQ 0) THEN
P 0192 4             $CRD_Print ($ASCII ('*** Get_DDB: The prev DDB = !XL, status = !XL!/''),
: 0193 5               .CRD$GA_HS_Current_DDB_Ptr, .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status])
: 0194 4           ELSE
P 0195 4             $CRD_Print ($ASCII ('*** Get_DDB: The prev DDB = !XL!/''),
: 0196 4               .CRD$GA_HS_Current_DDB_Ptr);
: 0197 3           END;
: 0198 3
: 0199 3       CRD$GA_HS_Current_DDB_Ptr = .Test_Queue_Table [.CRD$GL_TQ_Current_TQ_Entry];
: 0200 3       CRD$GL_TQ_Current_TQ_Entry = .CRD$GL_TQ_Current_TQ_Entry + 1;
: 0201 3
: 0202 3       IF (.CRD$GB_CRD_Debug) THEN
: 0203 4         BEGIN
: 0204 4           MAP
: 0205 4             CRD$GA_HS_Current_DDB_Ptr : REF Device_Data_Block_Structure;
: 0206 4
P 0207 4             $CRD_Print ($ASCII ('*** Get_DDB: The next DDB = !XL, status = !XL!/''),
: 0208 4               .CRD$GA_HS_Current_DDB_Ptr, .CRD$GA_HS_Current_DDB_Ptr [CRD$K_DDB_Status]);
: 0209 3           END;
: 0210 2       END;
: 0211 2
: 0212 3   RETURN (CRD$K_Repeat_Turing)
: 0213 1 END;      ! Routine TQ$Get_DDB

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

54 20 3A 42 44 44 5F 74 65 47 20 2A 2A 2A 2F 0002C P.AAC: .ASCII \/** Get_DDB: The prev DDB = !XL, status\ ;
21 20 3D 20 42 44 44 20 76 65 72 70 20 65 68 0003B ;
    73 75 74 61 74 73 20 2C 4C 58 0004A ;
    2F 21 4C 58 21 20 3D 20 00054 .ASCII \ = !XL!/ \
54 20 3A 42 44 44 5F 74 65 47 20 2A 2A 2A 21 0005C P.AAD: .ASCII \!*** Get_DDB: The prev DDB = !XL!/ \ ;
21 20 3D 20 42 44 44 20 76 65 72 70 20 65 68 0006B ;
    2F 21 4C 58 0007A ;
54 20 3A 42 44 44 5F 74 65 47 20 2A 2A 2A 2F 0007E P.AAE: .ASCII \/** Get_DDB: The next DDB = !XL, status\ ;
21 20 3D 20 42 44 44 20 74 78 65 6E 20 65 68 0008D ;
    73 75 74 61 74 73 20 2C 4C 58 0009C ;
    2F 21 4C 58 21 20 3D 20 000A6 .ASCII \ = !XL./ \ ;

```

.EXTRN CRD\$GL_TQ_CURRENT_STATE
.EXTRN CRD\$GA_HS_CURRENT_DDB_PTR

.PSECT CODE,NOWRT, SHR, PIC,2

```
0004 00000 .ENTRY TQ$GET_DDB, Save R2 ; 0153
52 00000000G EF D0 00002 MOVL MEN$GA_TEST_QUEUE+4, R2 ; 0178
50 00000000G EF D0 00009 MOVL CRD$GL_TQ_CURRENT_TQ_ENTRY, R0 ; 0180
6240 D5 00010 TSTL (R2)[R0] ;
09 12 00013 BNEQ 1$ ;
00000000G EF 07 D0 00015 MOVL #7, CRD$GL_TQ_CURRENT_STATE ; 0182
74 11 0001C BRB 4$ ; 0180
34 00000000G EF E9 0001E 1$: BLBC CRD$GB_CRD_DEBUG, 3$ ; 0186
50 00000000G EF D0 00025 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0191
18 13 0002C BEQL 2$ ;
14 A0 DD 0002E PUSHL 20(R0) ; 0193
50 DD 00031 PUSHL R0 ;
00000000' EF 9F 00033 PUSHAB P.AAC ;
01 DD 00039 PUSHL #1 ;
1A DD 0003B PUSHL #26 ;
00000000G FF 05 FB 0003D CALLS #5, aCRD$PRINT ;
13 11 00044 BRB 3$ ;
50 DD 00046 2$: PUSHL R0 ; 0196
00000000' EF 9F 00048 PUSHAB P.AAD ;
01 DD 0004E PUSHL #1 ;
1A DD 00050 PUSHL #26 ;
00000000G FF 04 FB 00052 CALLS #4, aCRD$PRINT ;
50 00000000G EF D0 00059 3$: MOVL CRD$GL_TQ_CURRENT_TQ_ENTRY, R0 ; 0199
00000000G EF 6240 D0 00060 MOVL (R2)[R0], CRD$GA_HS_CURRENT_DDB_PTR ;
00000000G EF D6 00068 INCL CRD$GL_TQ_CURRENT_TQ_ENTRY ; 0200
1D 00000000G EF E9 0006E BLBC CRD$GB_CRD_DEBUG, 4$ ; 0202
50 00000000G EF D0 00075 MOVL CRD$GA_HS_CURRENT_DDB_PTR, R0 ; 0208
14 A0 DD 0007C PUSHL 20(R0) ;
50 DD 0007F PUSHL R0 ;
00000000' EF 9F 00081 PUSHAB P.AAE ;
01 DD 00087 PUSHL #1 ;
1A DD 00089 PUSHL #26 ;
00000000G FF 05 FB 0008B CALLS #5, aCRD$PRINT ;
50 02 D0 00092 4$: MOVL #2, R0 ; 021~
04 00095 RET ; 0213
```

; Routine Size: 150 bytes, Routine Base: CODE + 0055

```
; 0214 1 xSBTTL 'TQ$Change_Table Routine'
; 0215 1
; 0216 1 GLOBAL ROUTINE TQ$Change_Table =
; 0217 1
; 0218 1 !**
; 0219 1 ! Functional Description:
; 0220 1 !
; 0221 1 ! Describe function of routine
; 0222 1 !
; 0223 1 ! Formal Input Parameters:
; 0224 1 !
; 0225 1 ! None
; 0226 1 !
; 0227 1 ! Formal Output Parameters:
; 0228 1 !
; 0229 1 ! None
; 0230 1 !
; 0231 1 ! Side Effects:
; 0232 1 !
; 0233 1 ! None
; 0234 1 !
; 0235 1 ! Completion Codes:
; 0236 1 !
; 0237 1 ! None
; 0238 1 ! -
```

19-Sep-1985

Fiche 6 Frame C9

Sequence 1136

CRDTQACT *** CRDTQACT Module

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01-00	TQ\$Change_Table Routine
01-01	01-01
01-02	01-02
01-03	01-03
01-04	01-04
01-05	01-05
01-06	01-06
01-07	01-07
01-08	01-08
01-09	01-09
01-10	01-10
01-11	01-11
01-12	01-12
01-13	01-13
01-14	01-14
01-15	01-15
01-16	01-16
01-17	01-17
01-18	01-18
01-19	01-19
01-20	01-20
01-21	01-21
01-22	01-22
01-23	01-23
01-24	01-24
01-25	01-25
01-26	01-26
01-27	01-27
01-28	01-28
01-29	01-29
01-30	01-30
01-31	01-31
01-32	01-32
01-33	01-33
01-34	01-34
01-35	01-35
01-36	01-36
01-37	01-37
01-38	01-38
01-39	01-39
01-40	01-40
01-41	01-41
01-42	01-42
01-43	01-43
01-44	01-44
01-45	01-45
01-46	01-46
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01-48	01-48
01-49	01-49
01-50	01-50
01-51	01-51
01-52	01-52
01-53	01-53
01-54	01-54
01-55	01-55
01-56	01-56
01-57	01-57
01-58	01-58
01-59	01-59
01-60	01-60
01-61	01-61
01-62	01-62
01-63	01-63
01-64	01-64
01-65	01-65
01-66	01-66
01-67	01-67
01-68	01-68
01-69	01-69
01-70	01-70
01-71	01-71
01-72	01-72
01-73	01-73
01-74	01-74
01-75	01-75
01-76	01-76
01-77	01-77
01-78	01-78
01-79	01-79
01-80	01-80
01-81	01-81
01-82	01-82
01-83	01-83
01-84	01-84
01-85	01-85
01-86	01-86
01-87	01-87
01-88	01-88
01-89	01-89
01-90	01-90
01-91	01-91
01-92	01-92
01-93	01-93
01-94	01-94
01-95	01-95
01-96	01-96
01-97	01-97
01-98	01-98
01-99	01-99

3-Jan-1985 17:02:18 (DS.CRD.V020)CRDTQACT.B32;1 (13)

```
; 0239 2 BEGIN      ! Routine TQ$Change_Table
```

```
0240 2 CRD$GB_Current_State_Table = MEN$K_HS_State_Table;
```

```
; 0241 2      ! Change to the Hardware Support State Table now.
```

```
; 0242 3 RETURN (CRD$K_Repeat_Turing)
```

```

; 0243 1 END;      ! Routine TQ$Change_Table

```

```
.EXTRN CRD$GB_CURRENT_STATE_TABLE
```

```
0000 00000 .ENTRY TQ$CHANGE_TABLE, Save nothing ; 0216
```

```
00000000G EF 02 90 00002 MOVB #2, CRD$GB_CURRENT_STATE_TABLE ; 0240
```

```
50      02  D0  00009      MOVL      #2, R0                      ; 0242
```

```
04 0000C      RET                                ; 0243
```

```
; Routine Size: 13 bytes,    Routine Base: CODE + 00EB
```

ZZ-ENSAB-2.0 TQ\$Done_Test_Queue Routine D 9
CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame D9 Sequence 1137
01-00 TQ\$Done_Test_Queue Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (14) Page 16

```
; 0244 1 xSBTTL 'TQ$Done_Test_Queue Routine'
; 0245 1
; 0246 1 GLOBAL ROUTINE TQ$Done_Test_Queue =
; 0247 1
; 0248 1 !**
; 0249 1 ! Functional Description:
; 0250 1 !
; 0251 1 ! Describe function of routine
; 0252 1 !
; 0253 1 ! Formal Input Parameters:
; 0254 1 !
; 0255 1 ! None
; 0256 1 !
; 0257 1 ! Formal Output Parameters:
; 0258 1 !
; 0259 1 ! None
; 0260 1 !
; 0261 1 ! Side Effects:
; 0262 1 !
; 0263 1 ! None
; 0264 1 !
; 0265 1 ! Completion Codes:
; 0266 1 !
; 0267 1 ! None
; 0268 1 !
```


ZZ-ENSAB-2.0 TQ\$Done_Test_Queue Routine E 9
 CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame E9 Sequence 1138
 01-00 TQ\$Done_Test_Queue Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (15) Page 17

```

; 0269 2 BEGIN      ! Routine TQ$Done_Test_Queue
; 0270 2 !+
; 0271 2 ! Re-initialize TQ:
; 0272 2 !-
; 0273 2
; 0274 2 MEN$FncTst_CmplErr_Status (); ! Print an ending message - how many errors, etc.
; 0275 2
; 0276 2 CRD$GL_TQ_Current_State = TQ$K_State_Init_TQ;
; 0277 2 ! Reset the Test Queue state number
; 0278 2 CRD$GB_Current_State_Table = MEN$K_MM_State_Table;
; 0279 2 ! Change to the Main Menu state table
; 0280 3 RETURN (CRD$K_Repeat_Turing)
; 0281 1 END;      ! Routine TQ$Done_Test_Queue

```

.EXTRN MEN\$FNCTST_CMPLERR_STATUS

```

0000 00000 .ENTRY TQ$DONE_TEST_QUEUE, Save nothing ; 0246
00000000G EF 00 FB 00002 CALLS #0, MEN$FNCTST_CMPLERR_STATUS ; 0274
00000000G EF 03 D0 00009 MOVL #3, CRD$GL_TQ_CURRENT_STATE ; 0276
00000000G EF 94 00010 CLRB CRD$GB_CURRENT_STATE_TABLE ; 0278
50 02 D0 00016 MOVL #2, R0 ; 0280
04 00019 RET ; 0281

```

; Routine Size: 26 bytes. Routine Base: CODE + 00F8

```

: 0282 1 xSBTTL 'TQ$Internal_Error Routine'
: 0283 1
: 0284 1 GLOBAL ROUTINE TQ$Internal_Error (TypeCode, Length, Address) =
: 0285 1
: 0286 1 !**
: 0287 1 ! Functional Description:
: 0288 1 !
: 0289 1 ! Describe function of routine
: 0290 1 !
: 0291 1 ! Formal Input Parameters:
: 0292 1 !
: 0293 1 ! None
: 0294 1 !
: 0295 1 ! Formal Output Parameters:
: 0296 1 !
: 0297 1 ! None
: 0298 1 !
: 0299 1 ! Side Effects:
: 0300 1 !
: 0301 1 ! None
: 0302 1 !
: 0303 1 ! Completion Codes:
: 0304 1 !
: 0305 1 ! None
: 0306 1

```

ZZ-ENSAB-2.0 TQ\$Internal_Error Routine G 9
 CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame G9 Sequence 1140
 01-00 TQ\$Internal_Error Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (17)

```

; 0307 2 BEGIN      ! Routine TQ$Internal_Error
; 0308 2 MEN$Menu_Test_Internal_Error (CRD$K_TQ_Internal_Error, .TypeCode, .Length, .Address);
; 0309 2 CRD$Stop (AUT$K_Exit_Internal_Error);
; 0310 3 RETURN (CRD$K_Return_Failure)
; 0311 1 END;      ! Routine TQ$Internal_Error

```

```

.EXTRN MEN$MENU_TEST_INTERNAL_ERROR
.EXTRN CRD$STOP

```

```

      0000 00000 .ENTRY TQ$INTERNAL_ERROR, Save nothing ; 0284
04 7E 08 AC 7D 00002 MOVQ LENGTH, -(SP) ; 0308
AC DD 00006 PUSHL TYPECODE ;
7E 07 CE 00009 MNEGL #7, -(SP) ;
00000000G EF 04 FB 0000C CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
01 DD 00013 PUSHL #1 ; 0309
00000000G EF 01 FB 00015 CALLS #1, CRD$STOP ;
50 D4 0001C CLRL R0 ; 0310
04 0001E RET ; 0311

```

; Routine Size: 31 bytes, Routine Base: CODE + 0112

: 0312 1 END ! End of CRDTQACT module
: 0313 0 ELUDOM

: PSECT SUMMARY

Name	Bytes	Attributes
DATA	174	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	305	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib02 127	192	195 207
\$CRD_LITERALS	Macro	Lib03 74		
\$CRD_PRINT	Macro	Lib03 127	192	195 207
\$DS_DSADef	Macro	Lib02 73		
\$DS_TPEDEF	Macro	Lib02 128	193	196 208
\$EQLST	Macro	Lib04 74	128	193 196 208
\$ER	Comptime	90		
\$MODULE	Bind	90		
ADDRESS	RoutForm	284 308.		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	74		
AUTOSK_EXIT_CONTROL_C	Literal	74		
AUTOSK_EXIT_DUMMY_2	Literal	74		
AUTOSK_EXIT_DUMMY_3	Literal	74		
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	74		
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	74		
AUTOSK_EXIT_INTERNAL_ERROR	Literal	74	309	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	74		
AUTOSK_EXIT_LAST_REASON	Literal	74	74	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	74		
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	74		
AUTOSK_EXIT_NOERRORS_PREP	Literal	74		
CRD\$GA_HS_CURRENT_DDB_PTR	External	Lib03 189m	191. 193. 193a. 196. 199=	
CRD\$GB_CRD_DEBUG	External	Lib03 124. 186. 202.		
CRD\$GB_CURRENT_STATE_TABLE	External	Lib03 240= 278=		
CRD\$GL_TQ_CURRENT_STATE	External	Lib03 182= 276=		
CRD\$GL_TQ_CURRENT_TQ_ENTRY	External	Lib03 135= 180. 199. 200= 200.		
CRD\$INIT_DDB_STATUS	ExtRout	Lib03 145c		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	74		
CRD\$K_ACTION_RANGE_ERROR	Literal	74		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	74		
CRD\$K_ADVANCE_GENERAL_COM	Literal	74		
CRD\$K_ADVANCE_STATE	Literal	74		
CRD\$K_ALLOCATION_ERROR	Literal	74		

Symbol	Type	Defined	Referenced ...
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	74	
CRD\$K_AUTOSIZER_ERROR	Literal	74	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	74	74
CRD\$K_BAD_ACTION_NUMBER	Literal	74	
CRD\$K_BAD_TYPECODE_ERROR	Literal	74	
CRD\$K_BASE_SYSTEM_IDC	Literal	74	
CRD\$K_BASE_SYSTEM_LESI	Literal	74	
CRD\$K_BASE_SYSTEM_NULL	Literal	74	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	74	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	74	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	74	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	74	
CRD\$K_CRD_INITIALIZATION	Literal	74	
CRD\$K_CREATE_HST	Literal	74	
CRD\$K_DATA_LENGTH_ERROR	Literal	74	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	74	74
CRD\$K_DDB_BLINK	Literal	74	
CRD\$K_DDB_FLINK	Literal	74	
CRD\$K_DDB_LAST_ENTRY	Literal	74	
CRD\$K_DDB_MEMORY_SIZE	Literal	74	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	74	74
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	74	74
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	74	74
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	74	74
CRD\$K_DDB_PTABLE_ENTRY	Literal	74	
CRD\$K_DDB_STATUS	Literal	74	193 208
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	74	
CRD\$K_DEVICE_NAME	Literal	74	
CRD\$K_DIAGNOSTIC_ERROR	Literal	74	
CRD\$K_DIAGNOSTIC_NAME	Literal	74	
CRD\$K_DONE_GENERAL_COMS	Literal	74	
CRD\$K_DO_NOTHING	Literal	74	
CRD\$K_DUMMY_10	Literal	74	
CRD\$K_DUMMY_11	Literal	74	
CRD\$K_DUMMY_12	Literal	74	
CRD\$K_DUMMY_13	Literal	74	
CRD\$K_DUMMY_3	Literal	74	
CRD\$K_DUMMY_4	Literal	74	
CRD\$K_DUMMY_5	Literal	74	
CRD\$K_DUMMY_6	Literal	74	
CRD\$K_DUMMY_7	Literal	74	
CRD\$K_DUMMY_8	Literal	74	
CRD\$K_DUMMY_9	Literal	74	
CRD\$K_EXIT_CRD	Literal	74	
CRD\$K_HOOK_POINT	Literal	74	
CRD\$K_HS_INTERNAL_ERROR	Literal	74	
CRD\$K_IDC_EVDLB	Literal	74	
CRD\$K_IDC_EVDLC	Literal	74	
CRD\$K_IDC_EVDLD	Literal	74	
CRD\$K_IDC_EVRAD_0	Literal	74	
CRD\$K_IDC_EVRAD_1	Literal	74	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	74	
CRD\$K_INTERNAL_ERROR	Literal	74	

ZZ-ENSAB-2.0 TQ\$Internal_Error Routine

CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746 Page 22

01-00 TQ\$Internal_Error Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (18)

Symbol	Type	Defined	Referenced	...
CRD\$K_LAST_ACTION_ROUTINE	Literal	74		
CRD\$K_LAST_ENTRY	Literal	74		
CRD\$K_LAST_FUNCTION	Literal	74		
CRD\$K_LAST_HOOK_POINT	Literal	74		
CRD\$K_LAST_INTERNAL_ERROR	Literal	74		
CRD\$K_LAST_TYPE	Literal	74		
CRD\$K_LESI_ENWCA	Literal	74		
CRD\$K_LESI_EVRMB_0	Literal	74		
CRD\$K_LESI_EVRMB_1	Literal	74		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	74		
CRD\$K_LEVEL_4_PASSED	Literal	74		
CRD\$K_LOAD_AUTOSIZER	Literal	74		
CRD\$K_LOAD_ERROR	Literal	74		
CRD\$K_LOAD_GENERAL_COM	Literal	74		
CRD\$K_LOAD_LOAD_COM	Literal	74		
CRD\$K_LOAD_SELECT_COM	Literal	74		
CRD\$K_LOAD_SET_EVENT_COM	Literal	74		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	74		
CRD\$K_LOAD_START_COM	Literal	74		
CRD\$K_LOAD_SUP_FILE	Literal	74		
CRD\$K_MM_INTERNAL_ERROR	Literal	74		
CRD\$K_NEW_LINE	Literal	74		
CRD\$K_PREPARATION_ERROR	Literal	74		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	74		
CRD\$K_REPEAT_TURING	Literal	Lib03 149	212	242 280
CRD\$K_RETURN_FAILURE	Literal	Lib03 310		
CRD\$K_RUNTIME	Literal	74		
CRD\$K_SAME_LINE	Literal	74		
CRD\$K_SET_EVENT_ARGS	Literal	74		
CRD\$K_SET_FLAGS_ARGS	Literal	74		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	74		
CRD\$K_START	Literal	74		
CRD\$K_START_AUTOSIZER	Literal	74		
CRD\$K_START_ERROR	Literal	74		
CRD\$K_START_QUALIFIERS	Literal	74		
CRD\$K_STAR_LINE	Literal	74		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	74		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	74		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	74		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	74		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	74		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	74		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	74		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	74		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	74		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	74		
CRD\$K_STATE_DUMMY_1	Literal	74		
CRD\$K_STATE_DUMMY_10	Literal	74		
CRD\$K_STATE_DUMMY_12	Literal	74		
CRD\$K_STATE_DUMMY_13	Literal	74		
CRD\$K_STATE_DUMMY_2	Literal	74		
CRD\$K_STATE_DUMMY_3	Literal	74		
CRD\$K_STATE_DUMMY_4	Literal	74		

Symbol	Type	Defined	Referenced	...
CRD\$K_STATE_DUMMY_6	Literal	74		
CRD\$K_STATE_DUMMY_7	Literal	74		
CRD\$K_STATE_DUMMY_8	Literal	74		
CRD\$K_STATE_EXIT_CRD	Literal	74		
CRD\$K_STATE_INTERNAL_ERROR	Literal		74	
CRD\$K_STATE_LAST_STATE	Literal	74		
CRD\$K_STATE_LEVEL_4_PASSED	Literal		74	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal		74	
CRD\$K_STATE_LOAD_ERROR	Literal	74		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal		74	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	74		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	74		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal		74	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal		74	
CRD\$K_STATE_LOAD_START_COM	Literal	74		
CRD\$K_STATE_PREPARATION_ERROR	Literal		74	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal		74	
CRD\$K_STATE_START	Literal	74		
CRD\$K_STATE_START_AUTOSIZER	Literal		74	
CRD\$K_STATE_START_ERROR	Literal	74		
CRD\$K_TEST_START_TEXT	Literal	74		
CRD\$K_TQ_INTERNAL_ERROR	Literal	74	308	
CRD\$K_TYPECODE	Literal	74		
CRD\$K_UDA_0_EVDLB	Literal	74		
CRD\$K_UDA_0_EVDLC	Literal	74		
CRD\$K_UDA_0_EVDLD	Literal	74		
CRD\$K_UDA_0_EVRLA_0	Literal	74		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal		74	
CRD\$K_UDA_1_EVDLB	Literal	74		
CRD\$K_UDA_1_EVDLC	Literal	74		
CRD\$K_UDA_1_EVDLD	Literal	74		
CRD\$K_UDA_1_EVRLA_0	Literal	74		
CRD\$K_UDA_1_EVRLA_1	Literal	74		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal		74	
CRD\$K_UDA_2_EVDLB	Literal	74		
CRD\$K_UDA_2_EVDLC	Literal	74		
CRD\$K_UDA_2_EVDLD	Literal	74		
CRD\$K_UDA_2_EVRLA_0	Literal	74		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal		74	
CRD\$K_UDA_3_EVDLB	Literal	74		
CRD\$K_UDA_3_EVDLC	Literal	74		
CRD\$K_UDA_3_EVDLD	Literal	74		
CRD\$K_UDA_3_EVRLA_0	Literal	74		
CRD\$K_UDA_3_EVRLA_1	Literal	74		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal		74	
CRD\$PRINT	External Lib03	128ac	193ac	196ac 208ac
CRD\$STOP	ExtRout Lib03	309c		
DDB_PTR	Register	121 143=	145.	
DEVICE_DATA_BLOCK_STRUCTURE	Structur Lib03		189	205
DS\$K_PRINTB	Literal	128		
	Literal	193		
	Literal	196		
	Literal	208		

```
01-00 TQ$Internal Error Routine 3-Jan-1985 17:02:18 [DS-CRD-V020]CRDTQACT.B32:1 (18)
```

Symbol	Type	Defined	Referenced	...
DS\$K_PRINTF	Literal	128	128	
Literal	193	193		
Literal	196	196		
Literal	208	208		
DS\$K_PRINTI	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_PRINTX	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ABORT PROGRAM	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ABORT TEST	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_COMMAND_ERR	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_COMMAND_OUT	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_CRD_AUTOTEST	Literal	128	128	
Literal	193	193		
Literal	196	196		
Literal	208	208		
DS\$K_TYPE_DS_PROMPT	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_DS_START	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ERRDEV	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ERRHARD	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ERROR_BODY	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$K_TYPE_ERROR_END	Literal	128		

Symbol	Type	Defined	Referenced ...

	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_ERRPREP	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_ERRSOFT	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_ERRSUP	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_ERRSYS	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_ERR_HALT	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_EXCEPTION	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_EXCEPTION_HEAD	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_FIRST_PASS	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_GENERAL	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_GENERAL_ERROR	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_NO_TESTS	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_PARAM_ERROR	Literal	128	
	Literal	193	
	Literal	196	
	Literal	208	
DS\$K_TYPE_PROGRAM_END	Literal	128	
	Literal	193	

ZZ-ENSAB-2.0		TQ\$Internal_Error Routine		N 9		19-Sep-1985		Fiche 6 Frame N9		Sequence 1147		ZZ- CRD 01-	
CRDTQACT *** CRDTQACT Module		19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746		Page 26									
01-00 TQ\$Internal_Error Routine		3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (18)											
Symbol													:
Type Defined Referenced ...													:
-----													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_PROGRAM_INFO Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_PROGRAM_START Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_QIO_INVADP Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_QIO_NODRIVER Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_QIO_WRONGVER Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SCRIPT_ECHO Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SCRIPT_PNF Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SCRIPT_PROMPT Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SCRIPT_SKIP Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SEQUENCE_ERROR Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_START_ERR Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_START_LIST Literal 128													:
Literal 193													:
Literal 196													:
Literal 208													:
DS\$K_TYPE_SUMMARY Literal 128													:
Literal 193													:
Literal 196													:

Symbol	Type	Defined	Referenced	...
Literal	208			
DS\$K_TYPE_USER_PROMPT	Literal	128		
Literal	193			
Literal	196			
Literal	208			
DS\$AL_APTMAIL	Bind	73	73	
DS\$GL_APTCOM	Bind	73		
DS\$GL_DEVLEN	Bind	73		
DS\$GL_DEVNAM	Bind	73		
DS\$GL_ERRNO	Bind	73		
DS\$GL_EVENT	Bind	73		
DS\$GL_FLAGS	Bind	73		
DS\$GL_MSGPTR	Bind	73		
DS\$GL_MSGTYP	Bind	73		
DS\$GL_PASSES	Bind	73		
DS\$GL_PASSNO	Bind	73		
DS\$GL_SECTNO	Bind	73		
DS\$GL_SID	Bind	73		
DS\$GL_SUBTNO	Bind	73		
DS\$GL_TESTNO	Bind	73		
DS\$GL_UNITS	Bind	73		
GET1ST	Macro	Lib04	74	128 193 196 208
GET2ND	Unbound		74	128 193 196 208
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		74	
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		74	
HS\$K_ACTION_ADVANCE_STATE	Literal		74	
HS\$K_ACTION_CHANGE_TABLE	Literal		74	
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		74	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal		74	
HS\$K_ACTION_DO_NOTHING	Literal		74	
HS\$K_ACTION_DUMMY_3	Literal		74	
HS\$K_ACTION_DUMMY_4	Literal		74	
HS\$K_ACTION_DUMMY_5	Literal		74	
HS\$K_ACTION_DUMMY_6	Literal		74	
HS\$K_ACTION_INIT_HS	Literal		74	
HS\$K_ACTION_INTERNAL_ERROR	Literal		74	
HS\$K_ACTION_LAST_ACTION	Literal		74	
HS\$K_ACTION_LOAD_ERROR	Literal		74	
HS\$K_ACTION_LOAD_GENERAL_COM	Literal		74	
HS\$K_ACTION_LOAD_LOAD_COM	Literal		74	
HS\$K_ACTION_LOAD_SELECT_COM	Literal		74	
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal		74	
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal		74	
HS\$K_ACTION_LOAD_START_COM	Literal		74	
HS\$K_ACTION_PREPARATION_ERROR	Literal		74	
HS\$K_ACTION_START_ERROR	Literal		74	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal		74	
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal		74	
HS\$K_STATE_CHANGE_TABLE	Literal		74	
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal		74	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal		74	
HS\$K_STATE_DONE_GENERAL_COMS	Literal		74	
HS\$K_STATE_DUMMY_1	Literal		74	

Symbol	Type	Defined	Referenced ...
HS\$K_STATE_DUMMY_2	Literal	74	
HS\$K_STATE_DUMMY_3	Literal	74	
HS\$K_STATE_DUMMY_4	Literal	74	
HS\$K_STATE_DUMMY_6	Literal	74	
HS\$K_STATE_INIT_HS	Literal	74	
HS\$K_STATE_INTERNAL_ERROR	Literal	74	
HS\$K_STATE_LAST_STATE	Literal	74	
HS\$K_STATE_LOAD_ERROR	Literal	74	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	74	
HS\$K_STATE_LOAD_LOAD_COM	Literal	74	
HS\$K_STATE_LOAD_SELECT_COM	Literal	74	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	74	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	74	
HS\$K_STATE_LOAD_START_COM	Literal	74	
HS\$K_STATE_PREPARATION_ERROR	Literal	74	
HS\$K_STATE_START_ERROR	Literal	74	
LENGTH	Route	284 308	
MEN\$FNCTST_CMPLERR_STATUS	ExtRout	Lib03 274c	
MEN\$GA_TEST_QUEUE	External	Lib03 118. 125. 178.	
MEN\$K_HS_STATE_TABLE	Literal	74 240	
MEN\$K_MM_STATE_TABLE	Literal	74 278	
MEN\$K_TQ_STATE_TABLE	Literal	74	
MEN\$MENU_TEST_INTERNAL_ERROR	ExtRout	Lib03 308c	
MEN\$V_TQ_TABLE_NUMB_ENTRIES	Field	Lib03 125.	
MEN\$V_TQ_TABLE_PTR	Field	Lib03 118. 178.	
MENUS\$K_EXIT_AUTOSIZER_ERROR	Literal	74	
MENUS\$K_EXIT_INTERNAL_ERROR	Literal	74	
MENUS\$K_EXIT_LAST_REASON	Literal	74	
MENUS\$K_EXIT_OPERATOR_ABORT	Literal	74	
MENUS\$K_EXIT_OPERATOR_STOP	Literal	74	
MENUS\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	74	
MENUS\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	74	
MM\$K_ACTION_ADVANCE_STATE	Literal	74	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	74	
MM\$K_ACTION_BUILD_DDBS	Literal	74	
MM\$K_ACTION_BUILD_HSTS	Literal	74	
MM\$K_ACTION_CHANGE_TABLE	Literal	74	
MM\$K_ACTION_DONE_INITS	Literal	74	
MM\$K_ACTION_DO_NOTHING	Literal	74	
MM\$K_ACTION_DUMMY_3	Literal	74	
MM\$K_ACTION_DUMMY_4	Literal	74	
MM\$K_ACTION_DUMMY_5	Literal	74	
MM\$K_ACTION_DUMMY_6	Literal	74	
MM\$K_ACTION_DUMMY_7	Literal	74	
MM\$K_ACTION_DUMMY_8	Literal	74	
MM\$K_ACTION_INTERNAL_ERROR	Literal	74	
MM\$K_ACTION_LAST_ACTION	Literal	74	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	74	
MM\$K_ACTION_MENU_PROMPT	Literal	74	
MM\$K_ACTION_PRINT_MENU	Literal	74	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	74	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	74	
MM\$K_ACTION_START_AUTOSIZER	Literal	74	

Symbol	Type	Defined	Referenced ...
MM\$K_STATE_AUTOSIZER_ERROR	Literal	74	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	74	
MM\$K_STATE_BUILD_DDBS	Literal	74	
MM\$K_STATE_BUILD_HSTS	Literal	74	
MM\$K_STATE_CHANGE_TABLE	Literal	74	
MM\$K_STATE_DONE_INITS	Literal	74	
MM\$K_STATE_DUMMY_1	Literal	74	
MM\$K_STATE_DUMMY_2	Literal	74	
MM\$K_STATE_DUMMY_3	Literal	74	
MM\$K_STATE_DUMMY_5	Literal	74	
MM\$K_STATE_DUMMY_7	Literal	74	
MM\$K_STATE_DUMMY_8	Literal	74	
MM\$K_STATE_INTERNAL_ERROR	Literal	74	
MM\$K_STATE_LAST_STATE	Literal	74	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	74	
MM\$K_STATE_MENU_PROMPT	Literal	74	
MM\$K_STATE_PRINT_MENU	Literal	74	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	74	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	74	
MM\$K_STATE_START	Literal	74	
MM\$K_STATE_START_AUTOSIZER	Literal	74	
MODNAM	Macro	Lib01 90	
NUL2ND	Macro	Lib04 74	128 193 196 208
TEST_QUEUE_TABLE	Bind	118 128.	143.
	Bind	178 180.	199.
TQ\$CHANGE_TABLE	GlobRout	216 Lib03e	68f
TQ\$DONE_TEST_QUEUE	GlobRout	246 Lib03e	69f
TQ\$GET_DDB	GlobRout	153 Lib03e	67f
TQ\$INIT_TQ	GlobRout	93 Lib03e	66f
TQ\$INTERNAL_ERROR	GlobRout	284 Lib03e	70f
TQ\$K_ACTION_ADVANCE_STATE	Literal	74	
TQ\$K_ACTION_CHANGE_TABLE	Literal	74	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	74	
TQ\$K_ACTION_DO_NOTHING	Literal	74	
TQ\$K_ACTION_DUMMY_3	Literal	74	
TQ\$K_ACTION_DUMMY_4	Literal	74	
TQ\$K_ACTION_DUMMY_5	Literal	74	
TQ\$K_ACTION_GET_DDB	Literal	74	
TQ\$K_ACTION_INIT_TQ	Literal	74	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	74	
TQ\$K_ACTION_LAST_ACTION	Literal	74	
TQ\$K_STATE_CHANGE_TABLE	Literal	74	
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	74	182
TQ\$K_STATE_DUMMY_1	Literal	74	
TQ\$K_STATE_DUMMY_2	Literal	74	
TQ\$K_STATE_DUMMY_3	Literal	74	
TQ\$K_STATE_DUMMY_4	Literal	74	
TQ\$K_STATE_DUMMY_5	Literal	74	
TQ\$K_STATE_GET_DDB	Literal	74	
TQ\$K_STATE_INIT_TQ	Literal	74	276
TQ\$K_STATE_INTERNAL_ERROR	Literal	74	
TQ\$K_STATE_LAST_STATE	Literal	74	
TQT_INDEX	Register	122 141=	143. 146= 146.

Symbol		Type	Defined	Referenced	...
TQ_INDEX	Local		125	128.	
TYPECODE	RoutForm		284	308.	

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDTQACT.B32;1	
2	Module	CRDTQACT	
53	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	
56	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	
59	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	
62	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2	
313	Eludom	CRDTQACT	

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

; Library Statistics						
;						
; ----- Symbols ----- Pages Processing						
; File Total Loaded Percent Mapped Time						
; DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17						
; 671 1 0 46 00:00.1						
; DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30						
; 923 3 0 94 00:00.2						
; DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1						
; 486 25 5 62 00:00.1						
; SYS\$COMMON:[SYSLIB]LIB.L32;2 18619 3 0 1000 00:04.5						

; COMMAND QUALIFIERS

ZZ-ENSAB-2.0 TQ\$Internal_Error Routine F 10
CRDTQACT *** CRDTQACT Module 19-Sep-1985 17:11:00 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame F10 Sequence 1152
01-00 TQ\$Internal_Error Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTQACT.B32;1 (18) Page 31

; BLISS CRDTQACT.B32/LIST=CRDTQACT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDTQACT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 305 code + 174 data bytes
; Run Time: 00:26.8
; Elapsed Time: 00:51.6
; Lines/CPU Min: 700
; Lexemes/CPU-Min: 63340
; Memory Used: 184 pages
; Compilation Complete

```
; 0001 0 xTITLE '*** CRDTYPCOD Module'
; 0002 0 MODULE CRDTYPCOD ( ! Print a message saying what a given typecode is.
; 0003 0 IDENT = '01-01'
; 0004 0 ) =
; 0005 0 !**
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !-
```



```
: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the CRD-Autotest image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : Print a short message saying what a given typecode is used for.
: 0032 0 :
: 0033 0 : Author:
: 0034 0 :
: 0035 0 : Jack Stansbury
: 0036 0 :
: 0037 0 : Creation Date:
: 0038 0 :
: 0039 0 : April 29, 1982
: 0040 0 :
: 0041 0 : Version:
: 0042 0 :
: 0043 0 : 6.7
: 0044 0 :
: 0045 0 : Modified By:
: 0046 0 :
: 0047 0 : 01 Jack Stansbury, March 3, 1983, Version ??
: 0048 0 : Added an assert statement for the number of typcodes. If this number changes
: 0049 0 : from 38, then changes must be made to the CASE statement below.
: 0050 0 : --
```

```
: 0051 0 xSBTTL 'Libraries'
: 0052 1 BEGIN      ! Begin the CRDTYPCOD module
: 0053 1
: 0054 1 LIBRARY
: 0055 1 '$DS';     ! Use Ds.L32 first
: 0056 1
: 0057 1 LIBRARY
: 0058 1 '$Diag';   ! Use Diag.L32 second
: 0059 1
: 0060 1 LIBRARY
: 0061 1 '$CRD';    ! Use CRD.L32 third
: 0062 1
: 0063 1 LIBRARY
: 0064 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

; 0065 1 xSBTTL 'Table of Contents'
; 0066 1
; 0067 1 FORWARD ROUTINE
; 0068 1 CRD\$Print_TypeCode_Name : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0069 1 ! Print the message

ZZ-ENSAB-2.0 Included Macros and Literals

CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Page 5

01-01 Included Macros and Literals 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (5)

```
; 0070 1 xSBTTL 'Included Macros and Literals'
; 0071 1
; 0072 1 $DS_TypeDef; ! The typecode mnemonics
```

```
: 0073 1 xSBTTL 'Psect Definitions'
: 0074 1
: 0075 1 PSECT
: 0076 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0077 1
: 0078 1 PSECT
: 0079 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
: 0080 1
: 0081 1 PSECT
: 0082 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
: 0083 1
: 0084 1 PSECT
: 0085 1     GLOBAL  = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Module-Global Static Storage M 10
CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame M10 Sequence 1159
01-01 Module-Global Static Storage 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 Page 7 (7)

; 0086 1 xSBTTL 'Module-Global Static Storage'
; 0087 1
; 0088 1 ModNam ('CRDTYPCOD'); ! Module name for ErrSup macro

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```

: 0089 1 xSBTTL 'CRD$Print_TypeCode_Name Routine'
: 0090 1
: 0091 1 GLOBAL ROUTINE CRD$Print_TypeCode_Name (TypeCode) : NOVALUE =
: 0092 1
: 0093 1 !*+
: 0094 1 ! Functional Description:
: 0095 1 !
: 0096 1 ! Print a short message saying what a given typecode is used for.
: 0097 1 !
: 0098 1 ! Formal Input Parameters:
: 0099 1 !
: 0100 1 ! TypeCode: The typecode constant.
: 0101 1 !
: 0102 1 ! Formal Output Parameters:
: 0103 1 !
: 0104 1 ! None
: 0105 1 !
: 0106 1 ! Side Effects:
: 0107 1 !
: 0108 1 ! None
: 0109 1 !
: 0110 1 ! Completion Codes:
: 0111 1 !
: 0112 1 ! None
: 0113 1 ! --

```

```

; 0114 2 BEGIN      ! Routine CRD$Print_TypeCode_Name
; 0115 2
; 0116 2 MACRO
; M 0117 2   TypeCode_Case (TypeCode_Name) =
; M 0118 2   [xNAME ('DS$K_Type_', TypeCode_Name)];
; M 0119 2   $CRD_Print ($ASCIC (TypeCode_Name, '!/' ))
; 0120 2   x;
; 0121 2
; P 0122 2   CRD_Assert ((CRD$K_Numb_TypeCodes EQL 38),      ![01]
; L 0123 2   'You must make changes to the CASE statement below if you add more typecodes');  ![01]
; xPRINT: ASSERT: The assertion is true.
; 0124 2
; 0125 2   CASE .TypeCode FROM 0 TO (CRD$K_Numb_TypeCodes - 1) OF
; 0126 2   SET
; 0127 2   TypeCode_Case ('General');
; 0128 2   TypeCode_Case ('DS_Prompt');
; 0129 2   TypeCode_Case ('User_Prompt');
; 0130 2   TypeCode_Case ('General_Error');
; 0131 2   TypeCode_Case ('Errsup');
; 0132 2   TypeCode_Case ('Errsys');
; 0133 2   TypeCode_Case ('Errhard');
; 0134 2   TypeCode_Case ('Errsoft');
; 0135 2   TypeCode_Case ('Errdev');
; 0136 2   TypeCode_Case ('Error_Body');
; 0137 2   TypeCode_Case ('Error_End');
; 0138 2   TypeCode_Case ('Exception_Head');
; 0139 2   TypeCode_Case ('Exception');
; 0140 2   TypeCode_Case ('Err_Halt');
; 0141 2   TypeCode_Case ('Summary');
; 0142 2   TypeCode_Case ('Program_Start');
; 0143 2   TypeCode_Case ('Program_End');
; 0144 2   TypeCode_Case ('First_Pass');
; 0145 2   TypeCode_Case ('No_Tests');
; 0146 2   TypeCode_Case ('Abort_Test');
; 0147 2   TypeCode_Case ('Abort_Program');
; 0148 2   TypeCode_Case ('Command_Err');
; 0149 2   TypeCode_Case ('Command_Out');
; 0150 2   TypeCode_Case ('Program_Info');
; 0151 2   TypeCode_Case ('Start_Err');
; 0152 2   TypeCode_Case ('Sequence_Error');
; 0153 2   TypeCode_Case ('CRD_AutoTest');
; 0154 2   TypeCode_Case ('Errprep');
; 0155 2   TypeCode_Case ('Param_Error');
; 0156 2   TypeCode_Case ('DS_Start');
; 0157 2   TypeCode_Case ('Script_Pnf');
; 0158 2   TypeCode_Case ('Script_Skip');
; 0159 2   TypeCode_Case ('Script_Prompt');
; 0160 2   TypeCode_Case ('Script_Echo');
; 0161 2   TypeCode_Case ('Qio_Nodriver');
; 0162 2   TypeCode_Case ('Qio_Wrongver');
; 0163 2   TypeCode_Case ('Qio_Invadp');
; 0164 2   TypeCode_Case ('Start_List');
; 0165 2
; 0166 2   [OUTRANGE]:
; 0167 2   $CRD_Print ($ASCIC ('Undefined typecode = !UL!/' ), .TypeCode);

```


: 0168 2 TES;
: 0169 1 END; ! Routine CRD\$Print_TypeCode_Name

.TITLE CRDTPCOD *** CRDTPCOD Module
.IDENT \01-01\

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

      44 4F 43 50 59 54 44 52 43 09 00000 P.AAA: .ASCII <9>\CRDTPCOD\      ;
      2F 21 6C 61 72 65 6E 65 47 09 0000A P.AAB: .ASCII <9>\General!\      ;
      2F 21 74 70 6D 6F 72 50 5F 53 44 0B 00014 P.AAC: .ASCII <11>\DS_Prompt!\      ;
      2F 21 74 70 6D 6F 72 50 5F 72 65 73 55 0D 00020 P.AAD: .ASCII <13>\User_Prompt!\      ;
21 72 6F 72 72 45 5F 6C 61 72 65 6E 65 47 0F 0002E P.AAE: .ASCII <15>\General_Error!\      ;
      2F 0003D      ;
      2F 21 70 75 73 72 72 45 08 0003E P.AAF: .ASCII <8>\Errsup!\      ;
      2F 21 73 79 73 72 72 45 08 00047 P.AAG: .ASCII <8>\Errsys!\      ;
      2F 21 64 72 61 68 72 72 45 09 00050 P.AAH: .ASCII <9>\Errhard!\      ;
      2F 21 74 66 6F 73 72 72 45 09 0005A P.AAI: .ASCII <9>\Errsoft!\      ;
      2F 21 76 65 64 72 72 45 08 00064 P.AAJ: .ASCII <8>\Errdev!\      ;
      2F 21 79 64 6F 42 5F 72 6F 72 72 45 0C 0006D P.AAK: .ASCII <12>\Error_Body!\      ;
      2F 21 64 6E 45 5F 72 6F 72 72 45 0B 0007A P.AAL: .ASCII <11>\Error_End!\      ;
64 61 65 48 5F 6E 6F 69 74 70 65 63 78 45 10 00086 P.AAM: .ASCII <16>\Exception_Head!\      ;
      2F 21 00095      ;
      2F 21 6E 6F 69 74 70 65 63 78 45 0B 00097 P.AAN: .ASCII <11>\Exception!\      ;
      2F 21 74 6C 61 48 5F 72 72 45 0A 000A3 P.AAO: .ASCII <10>\Err_Halt!\      ;
      2F 21 79 72 61 6D 6D 75 53 09 000AE P.AAP: .ASCII <9>\Summary!\      ;
21 74 72 61 74 53 5F 6D 61 72 67 6F 72 50 0F 000B8 P.AAQ: .ASCII <15>\Program_Start!\      ;
      2F 000C7      ;
      2F 21 64 6E 45 5F 6D 61 72 67 6F 72 50 0D 000C8 P.AAR: .ASCII <13>\Program_End!\      ;
      2F 21 73 73 61 50 5F 74 73 72 69 46 0C 000D6 P.AAS: .ASCII <12>\First_Pass!\      ;
      2F 21 73 74 73 65 54 5F 6F 4E 0A 000E3 P.AAT: .ASCII <10>\No_Tests!\      ;
      2F 21 74 73 65 54 5F 74 72 6F 62 41 0C 000EE P.AAU: .ASCII <12>\Abort_Test!\      ;
21 6D 61 72 67 6F 72 50 5F 74 72 6F 62 41 0F 000FB P.AAV: .ASCII <15>\Abort_Program!\      ;
      2F 0010A      ;
      2F 21 72 72 45 5F 64 6E 61 6D 6D 6F 43 0D 0010B P.AAW: .ASCII <13>\Command_Err!\      ;
      2F 21 74 75 4F 5F 64 6E 61 6D 6D 6F 43 0D 00119 P.AAX: .ASCII <13>\Command_Out!\      ;
2F 21 6F 66 6E 49 5F 6D 61 72 67 6F 72 50 0E 00127 P.AAY: .ASCII <14>\Program_Info!\      ;
      2F 21 72 72 45 5F 74 72 61 74 53 0B 00136 P.AAZ: .ASCII <11>\Start_Err!\      ;
72 6F 72 72 45 5F 65 63 6E 65 75 71 65 53 10 00142 P.ABA: .ASCII <16>\Sequence_Error!\      ;
      2F 21 00151      ;
2F 21 74 73 65 54 6F 74 75 41 5F 44 52 43 0E 00153 P.ABB: .ASCII <14>\CRD_AutoTest!\      ;
      2F 21 70 65 72 70 72 72 45 09 00162 P.ABC: .ASCII <9>\Errprep!\      ;
      2F 21 72 6F 72 72 45 5F 6D 61 72 61 50 0D 0016C P.ABD: .ASCII <13>\Param_Error!\      ;
      2F 21 74 72 61 74 53 5F 53 44 0A 0017A P.ABE: .ASCII <10>\DS_Start!\      ;
      2F 21 66 6E 50 5F 74 70 69 72 63 53 0C 00185 P.ABF: .ASCII <12>\Script_Pnf!\      ;
      2F 21 70 69 6B 53 5F 74 70 69 72 63 53 0D 00192 P.ABG: .ASCII <13>\Script_Skip!\      ;
21 74 70 6D 6F 72 50 5F 74 70 69 72 63 53 0F 001A0 P.ABH: .ASCII <15>\Script_Prompt!\      ;
      2F 001AF      ;
      2F 21 6F 68 63 45 5F 74 70 69 72 63 53 0D 001B0 P.ABI: .ASCII <13>\Script_Echo!\      ;
2F 21 72 65 76 69 72 64 6F 4E 5F 6F 69 51 0E 001BE P.ABJ: .ASCII <14>\Qio_Nodriver!\      ;
2F 21 72 65 76 67 6E 6F 72 57 5F 6F 69 51 0E 001CD P.ABK: .ASCII <14>\Qio_Wrongver!\      ;
      2F 21 70 64 61 76 6E 49 5F 6F 69 51 0C 001DC P.ABL: .ASCII <12>\Qio_Invadp!\      ;
      2F 21 74 73 69 4C 5F 74 72 61 74 53 0C 001E9 P.ABM: .ASCII <12>\Start_List!\      ;
65 70 79 74 20 64 65 6E 69 66 65 64 6E 55 1A 001F6 P.ABN: .ASCII <26>\Undefined typecode = !UL!\      ;
```

2F 21 4C 55 21 20 3D 20 65 64 6F 63 00205 ;

\$MODULE= P.AAA

.EXTRN CRD\$PRINT_TYPECODE_NAME

.EXTRN CRD\$PRINT

.PSECT CODE,NOWRT, SHR, PIC,2

```
0004 00000 .ENTRY CRD$PRINT_TYPECODE_NAME, Save R2 ; 0091
52 00000000G EF D0 00002 MOVL CRD$PRINT, R2 ; 0167
25 00 04 AC CF 00009 CASEL TYPECODE, #0, #37 ; 0125
0078 006F 0066 005D 0000E 1$: .WORD 2$-1$,- ;
009C 0093 008A 0081 00016 3$-1$,- ;
00C0 00B7 00AE 00A5 0001E 4$-1$,- ;
00E4 00DB 00D2 00C9 00026 5$-1$,- ;
0108 00FF 00F6 00ED 0002E 6$-1$,- ;
012A 0122 011A 0111 00036 7$-1$,- ;
014A 0142 013A 0132 0003E 8$-1$,- ;
016A 0162 015A 0152 00046 9$-1$,- ;
018A 0182 017A 0172 0004E 10$-1$,- ;
019A 0192 00056 11$-1$,- ;
12$-1$,- ;
13$-1$,- ;
14$-1$,- ;
15$-1$,- ;
16$-1$,- ;
17$-1$,- ;
18$-1$,- ;
19$-1$,- ;
20$-1$,- ;
21$-1$,- ;
22$-1$,- ;
23$-1$,- ;
24$-1$,- ;
25$-1$,- ;
26$-1$,- ;
27$-1$,- ;
28$-1$,- ;
29$-1$,- ;
30$-1$,- ;
31$-1$,- ;
32$-1$,- ;
33$-1$,- ;
34$-1$,- ;
35$-1$,- ;
36$-1$,- ;
37$-1$,- ;
38$-1$,- ;
39$-1$,- ;
04 AC DD 0005A PUSHL TYPECODE ; 0167
00000000' EF 9F 0005D PUSHAB P.ABN ;
01 DD 00063 PUSHL #1 ;
1A DD 00065 PUSHL #26 ;
62 04 FB 00067 CALLS #4, (R2) ;
04 0006A RET ;
```

00000000'	EF	9F	0006B	2\$:	PUSHAB	P.AAB	:	0127
013A	31	00071	BRW	40\$				
00000000'	EF	9F	00074	3\$:	PUSHAB	P.AAC	:	0128
0131	31	0007A	BRW	40\$				
00000000'	EF	9F	0007D	4\$:	PUSHAB	P.AAD	:	0129
0128	31	00083	BRW	40\$				
00000000'	EF	9F	00086	5\$:	PUSHAB	P.AAE	:	0130
011F	31	0008C	BRW	40\$				
00000000'	EF	9F	0008F	6\$:	PUSHAB	P.AAF	:	0131
0116	31	00095	BRW	40\$				
00000000'	EF	9F	00098	7\$:	PUSHAB	P.AAG	:	0132
010D	31	0009E	BRW	40\$				
00000000'	EF	9F	000A1	8\$:	PUSHAB	P.AAH	:	0133
0104	31	000A7	BRW	40\$				
00000000'	EF	9F	000AA	9\$:	PUSHAB	P.AAI	:	0134
00FB	31	000B0	BRW	40\$				
00000000'	EF	9F	000B3	10\$:	PUSHAB	P.AAJ	:	0135
00F2	31	000B9	BRW	40\$				
00000000'	EF	9F	000BC	11\$:	PUSHAB	P.AAK	:	0136
00E9	31	000C2	BRW	40\$				
00000000'	EF	9F	000C5	12\$:	PUSHAB	P.AAL	:	0137
00E0	31	000CB	BRW	40\$				
00000000'	EF	9F	000CE	13\$:	PUSHAB	P.AAM	:	0138
00D7	31	000D4	BRW	40\$				
00000000'	EF	9F	000D7	14\$:	PUSHAB	P.AAN	:	0139
00CE	31	000DD	BRW	40\$				
00000000'	EF	9F	000E0	15\$:	PUSHAB	P.AAO	:	0140
00C5	31	000E6	BRW	40\$				
00000000'	EF	9F	000E9	16\$:	PUSHAB	P.AAP	:	0141
00BC	31	000EF	BRW	40\$				
00000000'	EF	9F	000F2	17\$:	PUSHAB	P.AAQ	:	0142
00B3	31	000F8	BRW	40\$				
00000000'	EF	9F	000FB	18\$:	PUSHAB	P.AAR	:	0143
00AA	31	00101	BRW	40\$				
00000000'	EF	9F	00104	19\$:	PUSHAB	P.AAS	:	0144
00A1	31	0010A	BRW	40\$				
00000000'	EF	9F	0010D	20\$:	PUSHAB	P.AAT	:	0145
0098	31	00113	BRW	40\$				
00000000'	EF	9F	00116	21\$:	PUSHAB	P.AAU	:	0146
008F	31	0011C	BRW	40\$				
00000000'	EF	9F	0011F	22\$:	PUSHAB	P.AAV	:	0147
0086	31	00125	BRW	40\$				
00000000'	EF	9F	00128	23\$:	PUSHAB	P.AAW	:	0148
7E	11	0012E	BRB	40\$				
00000000'	EF	9F	00130	24\$:	PUSHAB	P.AAX	:	0149
76	11	00136	BRB	40\$				
00000000'	EF	9F	00138	25\$:	PUSHAB	P.AAY	:	0150
6E	11	0013E	BRB	40\$				
00000000'	EF	9F	00140	26\$:	PUSHAB	P.AAZ	:	0151
66	11	00146	BRB	40\$				
00000000'	EF	9F	00148	27\$:	PUSHAB	P.ABA	:	0152
5E	11	0014E	BRB	40\$				
00000000'	EF	9F	00150	28\$:	PUSHAB	P.ABB	:	0153
56	11	00156	BRB	40\$				
00000000'	EF	9F	00158	29\$:	PUSHAB	P.ABC	:	0154

```

    4E 11 0015E BRB 40$ ;
00000000' EF 9F 00160 30$: PUSHAB P.ABD ; 0155
    46 11 00166 BRB 40$ ;
00000000' EF 9F 00168 31$: PUSHAB P.ABE ; 0156
    3E 11 0016E BRB 40$ ;
00000000' EF 9F 00170 32$: PUSHAB P.ABF ; 0157
    36 11 00176 BRB 40$ ;
00000000' EF 9F 00178 33$: PUSHAB P.ABG ; 0158
    2E 11 0017E BRB 40$ ;
00000000' EF 9F 00180 34$: PUSHAB P.ABH ; 0159
    26 11 00186 BRB 40$ ;
00000000' EF 9F 00188 35$: PUSHAB P.ABI ; 0160
    1E 11 0018E BRB 40$ ;
00000000' EF 9F 00190 36$: PUSHAB P.ABJ ; 0161
    16 11 00196 BRB 40$ ;
00000000' EF 9F 00198 37$: PUSHAB P.ABK ; 0162
    0E 11 0019E BRB 40$ ;
00000000' EF 9F 001A0 38$: PUSHAB P.ABL ; 0163
    06 11 001A6 BRB 40$ ;
00000000' EF 9F 001A8 39$: PUSHAB P.ABM ; 0164
    01 DD 001AE 40$: PUSHL #1 ;
    1A DD 001B0 PUSHL #26 ;
    62 03 FB 001B2 CALLS #3, (R2) ;
    04 001B5 RET ; 0169
  
```

; Routine Size: 438 bytes, Routine Base: CODE + 0000

```

: 0170 1 END      ! End of CRDTYPCOD module
: 0171 0 ELUDOM

```

PSECT SUMMARY

```

: Name      Bytes      Attributes
:
: DATA      529 NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
: CODE       438 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

```

Symbol	Type	Defined	Referenced ...
\$ASCIC	Unbound	119	
Macro	Lib02	127 128 129 130 131 132 133 134 135 136 137	
		138 139 140 141 142 143 144 145 146 147 148	
		149 150 151 152 153 154 155 156 157 158 159	
		160 161 162 163 164 167	
\$CRD_PRINT	Unbound	119	
Macro	Lib03	127 128 129 130 131 132 133 134 135 136 137	
		138 139 140 141 142 143 144 145 146 147 148	
		149 150 151 152 153 154 155 156 157 158 159	
		160 161 162 163 164 167	
\$DS_TYPEDEF	Macro	Lib02 72	127 128 129 130 131 132 133 134 135 136
		137 138 139 140 141 142 143 144 145 146 147	
		148 149 150 151 152 153 154 155 156 157 158	
		159 160 161 162 163 164 167	
\$EQLST	Macro	Lib04 72	127 128 129 130 131 132 133 134 135 136
		137 138 139 140 141 142 143 144 145 146 147	
		148 149 150 151 152 153 154 155 156 157 158	
		159 160 161 162 163 164 167	
\$ER	Comptime	88	
\$MODULE	Bind	88	
CRD\$K_NUMB_TYPECODES	Literal	Lib03 123 125	
CRD\$PRINT	External	Lib03 127ac 128ac 129ac 130ac 131ac 132ac 133ac 134ac 135ac 136ac 137ac	
		138ac 139ac 140ac 141ac 142ac 143ac 144ac 145ac 146ac 147ac 148ac	
		149ac 150ac 151ac 152ac 153ac 154ac 155ac 156ac 157ac 158ac 159ac	
		160ac 161ac 162ac 163ac 164ac 167ac	
CRD\$PRINT_TYPECODE_NAME	GlobRout	91 Lib03e 68f	
CRD_ASSERT	Macro	Lib03 122	
DS\$K_PRINTB	Literal	72	
		127	
		128	
		129	
		130	
		131	
		132	

Symbol

Type Defined Referenced ...

Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
Literal	139		
Literal	140		
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Literal	142		
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Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_PRINTF	Literal	72	
Literal	127	127	
Literal	128	128	
Literal	129	129	
Literal	130	130	
Literal	131	131	
Literal	132	132	
Literal	133	133	
Literal	134	134	
Literal	135	135	
Literal	136	136	
Literal	137	137	
Literal	138	138	
Literal	139	139	
Literal	140	140	
Literal	141	141	
Literal	142	142	
Literal	143	143	
Literal	144	144	
Literal	145	145	

Symbol Type Defined Referenced ...

Literal	146	146
Literal	147	147
Literal	148	148
Literal	149	149
Literal	150	150
Literal	151	151
Literal	152	152
Literal	153	153
Literal	154	154
Literal	155	155
Literal	156	156
Literal	157	157
Literal	158	158
Literal	159	159
Literal	160	160
Literal	161	161
Literal	162	162
Literal	163	163
Literal	164	164
Literal	167	167
DS\$K_PRINTI	Literal	72
Literal	127	
Literal	128	
Literal	129	
Literal	130	
Literal	131	
Literal	132	
Literal	133	
Literal	134	
Literal	135	
Literal	136	
Literal	137	
Literal	138	
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Literal	141	
Literal	142	
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Literal	157	
Literal	158	

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine J 11
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame J11 Sequence 1169
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 17

Symbol ----- Type Defined Referenced ...

Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_PRINTX	Literal	72	
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	154		
Literal	155		
Literal	156		
Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ABORT_PROGRAM	Literal	72	147
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		

Symbol

Type Defined Referenced ...

Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
Literal	139		
Literal	140		
Literal	141		
Literal	142		
Literal	143		
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Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ABORT_TEST	Literal	72	146
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
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Literal	139		
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Literal	141		
Literal	142		
Literal	143		
Literal	144		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine L 11
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame L11 Sequence 1171
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 19

Symbol ----- Type Defined Referenced ...

Literal	145		
Literal	146		
Literal	147		
Literal	148		
Literal	149		
Literal	150		
Literal	151		
Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		
Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K TYPE COMMAND ERR	Literal	72	148
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	147		
Literal	148		
Literal	149		
Literal	150		
Literal	151		
Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		
Literal	157		

Symbol	Type	Defined	Referenced ...
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Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_COMMAND_OUT	Literal	72	149
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
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Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_CRD_AUTOTEST	Literal	72	153
Literal	127	127	
Literal	128	128	
Literal	129	129	
Literal	130	130	

D

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine B 12
 CRDTPCOD *** CRDTPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame B12
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTPCOD.B32;1 (10) Page 22

Sequence 1174

Symbol Type Defined Referenced ...

Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
Literal	149		
Literal	150		
Literal	151		
Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		
Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_DS_START	Literal	72	156
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	146		
Literal	147		
Literal	148		
Literal	149		
Literal	150		
Literal	151		
Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		

Symbol ----- Type Defined Referenced ...

Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ERRDEV	Literal	72	135
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	159		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ERRHARD	Literal	72	133
Literal	127		
Literal	128		
Literal	129		

Symbol	Type	Defined	Referenced	...
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Literal	130			
Literal	131			
Literal	132			
Literal	133			
Literal	134			
Literal	135			
Literal	136			
Literal	137			
Literal	138			
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Literal	140			
Literal	141			
Literal	142			
Literal	143			
Literal	144			
Literal	145			
Literal	146			
Literal	147			
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Literal	162			
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Literal	164			
Literal	167			
DS\$K_TYPE_ERROR_BODY	Literal	72	136	
Literal	127			
Literal	128			
Literal	129			
Literal	130			
Literal	131			
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Literal	134			
Literal	135			
Literal	136			
Literal	137			
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Literal	139			
Literal	140			
Literal	141			
Literal	142			

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine E 12
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame E12 Sequence 1177
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 25

Symbol Type Defined Referenced ...

Literal	143		
Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
Literal	149		
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Literal	151		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ERROR_END	Literal	72	137
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
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Literal	155		

Symbol	Type	Defined	Referenced	...
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	Literal	156		
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	Literal	158		
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	Literal	162		
	Literal	163		
	Literal	164		
	Literal	167		
DS\$K_TYPE_ERRPREP	Literal	72	154	
	Literal	127		
	Literal	128		
	Literal	129		
	Literal	130		
	Literal	131		
	Literal	132		
	Literal	133		
	Literal	134		
	Literal	135		
	Literal	136		
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	Literal	162		
	Literal	163		
	Literal	164		
	Literal	167		
DS\$K_TYPE_ERRSOFT	Literal	72	134	
	Literal	127		
	Literal	128		

Symbol ----- Type Defined Referenced ...

Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
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Literal	137		
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Literal	164		
Literal	167		
DS\$K_TYPE_ERRSUP	Literal	72	131
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
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Literal	138		
Literal	139		
Literal	140		
Literal	141		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine H 12
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame H12 Sequence 1180
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 28

Symbol Type Defined Referenced ...

Literal	142		
Literal	143		
Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
Literal	149		
Literal	150		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ERRSYS	Literal	72	132
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
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Literal	154		

Symbol Type Defined Referenced ...

Literal	155		
Literal	156		
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Literal	158		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_ERR_HALT	Literal	72	140
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_EXCEPTION	Literal	72	139
Literal	127		

Symbol Type Defined Referenced ...

Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	72	138
Literal	127		
Literal	128		
Literal	129		
Literal	130		
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Literal	132		
Literal	133		
Literal	134		
Literal	135		
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Literal	137		
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Literal	139		
Literal	140		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine K 12
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame K12 Sequence 1183
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 31

Symbol ----- Type Defined Referenced ...

Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
Literal	149		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K TYPE FIRST PASS	Literal	72	144
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	153		

Symbol	Type	Defined	Referenced	...
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Literal	154			
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Literal	167			
DS\$K_TYPE_GENERAL	Literal	72	127	
Literal	127			
Literal	128			
Literal	129			
Literal	130			
Literal	131			
Literal	132			
Literal	133			
Literal	134			
Literal	135			
Literal	136			
Literal	137			
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Literal	163			
Literal	164			
Literal	167			
DS\$K_TYPE_GENERAL_ERROR	Literal	72	130	

Symbol	Type	Defined	Referenced ...
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Literal	127		
Literal	128		
Literal	129		
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Literal	131		
Literal	132		
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Literal	164		
Literal	167		
DS\$K_TYPE_NO_TESTS	Literal	72	145
Literal	127		
Literal	128		
Literal	129		
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Literal	132		
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Literal	139		

Symbol

Type

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Literal	140		
Literal	141		
Literal	142		
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Literal	167		
DS\$K_TYPE_PARAM_ERROR	Literal	72	155
Literal	127		
Literal	128		
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Literal	134		
Literal	135		
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Symbol Type Defined Referenced ...

Literal	153		
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Literal	167		
DS\$K_TYPE_PROGRAM_END	Literal	72	143
Literal	127		
Literal	128		
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Literal	167		

Symbol	Type	Defined	Referenced	...
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DS\$K	TYPE	PROGRAM	INFO	Literal	72	150
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Literal	127
Literal	128
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Literal	164
Literal	167

DS\$K	TYPE	PROGRAM	START	Literal	72	142
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Literal	127
Literal	128
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Literal	136
Literal	137
Literal	138

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine D 13
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame D13 Sequence 1189
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 37

Symbol Type Defined Referenced ...

Literal	139		
Literal	140		
Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
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Literal	147		
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Literal	159		
Literal	160		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_QIO_INVADP	Literal	72	163
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	149		
Literal	150		
Literal	151		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine E 13
 CRDTPCOD *** CRDTPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame E13 Sequence 1190
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTPCOD.B32;1 (10) Page 38

Symbol Type Defined Referenced ...

Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		
Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_QIO_NODRIVER	Literal	72	161
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
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Literal	164		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine F 13
 CRDTPCOD *** CRDTPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame F13
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTPCOD.B32;1 (10) Page 39

Symbol Type Defined Referenced ...

DS\$K	L iter al	167		
	TYPE_Q10_WRONGVER		L iter al	72 162
	L iter al	127		
	L iter al	128		
	L iter al	129		
	L iter al	130		
	L iter al	131		
	L iter al	132		
	L iter al	133		
	L iter al	134		
	L iter al	135		
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	L iter al	161		
	L iter al	162		
	L iter al	163		
	L iter al	164		
	L iter al	167		
DS\$K	TYPE_SCRIPT_ECHO		L iter al	72 160
	L iter al	127		
	L iter al	128		
	L iter al	129		
	L iter al	130		
	L iter al	131		
	L iter al	132		
	L iter al	133		
	L iter al	134		
	L iter al	135		
	L iter al	136		
	L iter al	137		

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine G 13
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame G13
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10) Page 40

Sequence 1192

Symbol Type Defined Referenced ...

Literal	138		
Literal	139		
Literal	140		
Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
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Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_SCRIPT_PNF	Literal	72	157
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
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Symbol Type Defined Referenced ...

Literal	151			
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Literal	162			
Literal	163			
Literal	164			
Literal	167			
DS\$K_TYPE_SCRIPT_PROMPT	Literal	72	159	
Literal	127			
Literal	128			
Literal	129			
Literal	130			
Literal	131			
Literal	132			
Literal	133			
Literal	134			
Literal	135			
Literal	136			
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Literal	163			

Symbol Type Defined Referenced ...

	Literal	164		
	Literal	167		
DS\$K_TYPE_SCRIPT_SKIP	Literal	72	158	
	Literal	127		
	Literal	128		
	Literal	129		
	Literal	130		
	Literal	131		
	Literal	132		
	Literal	133		
	Literal	134		
	Literal	135		
	Literal	136		
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	Literal	162		
	Literal	163		
	Literal	164		
	Literal	167		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	72	152	
	Literal	127		
	Literal	128		
	Literal	129		
	Literal	130		
	Literal	131		
	Literal	132		
	Literal	133		
	Literal	134		
	Literal	135		
	Literal	136		

ZZ-E 'SAB-2.0 CRD\$Print_TypeCode_Name Routine J 13
 CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame J13 Sequence 1195
 01-01 CRD\$Print_TypeCode_Name Routine 3-Jan-1985 17:02:18 [DS.CRD.V020]CRDTYPCOD.B32;1 (10)

Symbol ----- Type Defined Referenced ...

Literal	137		
Literal	138		
Literal	139		
Literal	140		
Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
Literal	146		
Literal	147		
Literal	148		
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Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_START_ERR	Literal	72	151
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
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Literal	149		

Symbol	Type	Defined	Referenced	...
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Literal	150			
Literal	151			
Literal	152			
Literal	153			
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Literal	157			
Literal	158			
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Literal	160			
Literal	161			
Literal	162			
Literal	163			
Literal	164			
Literal	167			
DS\$K	TYPE	START	LIST	Literal 72 164
Literal	127			
Literal	128			
Literal	129			
Literal	130			
Literal	131			
Literal	132			
Literal	133			
Literal	134			
Literal	135			
Literal	136			
Literal	137			
Literal	138			
Literal	139			
Literal	140			
Literal	141			
Literal	142			
Literal	143			
Literal	144			
Literal	145			
Literal	146			
Literal	147			
Literal	148			
Literal	149			
Literal	150			
Literal	151			
Literal	152			
Literal	153			
Literal	154			
Literal	155			
Literal	156			
Literal	157			
Literal	158			
Literal	159			
Literal	160			
Literal	161			
Literal	162			

Symbol

Type Defined Referenced ...

Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_SUMMARY	Literal	72	141
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		
Literal	136		
Literal	137		
Literal	138		
Literal	139		
Literal	140		
Literal	141		
Literal	142		
Literal	143		
Literal	144		
Literal	145		
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Literal	147		
Literal	148		
Literal	149		
Literal	150		
Literal	151		
Literal	152		
Literal	153		
Literal	154		
Literal	155		
Literal	156		
Literal	157		
Literal	158		
Literal	159		
Literal	160		
Literal	161		
Literal	162		
Literal	163		
Literal	164		
Literal	167		
DS\$K_TYPE_USER_PROMPT	Literal	72	129
Literal	127		
Literal	128		
Literal	129		
Literal	130		
Literal	131		
Literal	132		
Literal	133		
Literal	134		
Literal	135		

Symbol	Type	Defined	Referenced	...

Literal		136		
Literal		137		
Literal		138		
Literal		139		
Literal		140		
Literal		141		
Literal		142		
Literal		143		
Literal		144		
Literal		145		
Literal		146		
Literal		147		
Literal		148		
Literal		149		
Literal		150		
Literal		151		
Literal		152		
Literal		153		
Literal		154		
Literal		155		
Literal		156		
Literal		157		
Literal		158		
Literal		159		
Literal		160		
Literal		161		
Literal		162		
Literal		163		
Literal		164		
Literal		167		
GET1ST_	Macro	Lib04	72	127 128 129 130 131 132 133 134 135 136
			137 138 139 140 141 142 143 144 145 146 147	
			148 149 150 151 152 153 154 155 156 157 158	
			159 160 161 162 163 164 167	
GET2ND_	Unbound		72	127 128 129 130 131 132 133 134 135 136
			137 138 139 140 141 142 143 144 145 146 147	
			148 149 150 151 152 153 154 155 156 157 158	
			159 160 161 162 163 164 167	
MODNAM	Macro	Lib01	88	
NUL2ND_	Macro	Lib04	72	127 128 129 130 131 132 133 134 135 136
			137 138 139 140 141 142 143 144 145 146 147	
			148 149 150 151 152 153 154 155 156 157 158	
			159 160 161 162 163 164 167	
TYPECODE	RoutForm	91	125.	167.
TYPECODE_CASE	Macro		117	127 128 129 130 131 132 133 134 135 136 137
			138 139 140 141 142 143 144 145 146 147 148	
			149 150 151 152 153 154 155 156 157 158 159	
			160 161 162 163 164	
TYPECODE_NAME	MacrForm		117	118 119

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]CRDTYPCOD.B32;1
2	Module	CRDTYPCOD
55	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
58	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
61	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
64	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
171	Eludom	CRDTYPCOD

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics						
File	----- Symbols -----			Pages Processing		
	Total	Loaded	Percent	Mapped	Time	
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17						
671	1	0	46		00:00.1	
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30						
923	2	0	94		00:00.1	
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1						
486	5	1	62		00:00.1	
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619		3	0	1000	00:04.4

COMMAND QUALIFIERS

BLISS CRDTYPCOD.B32/LIST=CRDTYPCOD.LIS/CROSS_REFERENCE/DEBUG/OBJECT=CRDTYPCOD.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 438 code + 529 data bytes

Run Time: 01:13.2

Elapsed Time: 02:15.7

Lines/CPU Min: 140

Lexemes/CPU-Min: 83958

ZZ-ENSAB-2.0 CRD\$Print_TypeCode_Name Routine B 14
CRDTYPCOD *** CRDTYPCOD Module 19-Sep-1985 17:11:55 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame B14 Sequence 1200
01-01 CRD\$Print_TypeCode_Name Routine Page 48

; Memory Used: 472 pages
; Compilation Complete

(1)	87	Libraries and Macros
(1)	93	The Dispatch Vectors


```
0000 1 .Title CRDVECS *** CRDVECS Module
0000 2 .Ident /V1.09/
0000 3 .NoShow Conditionals
0000 4
0000 5 ;**
0000 6 ; COPYRIGHT (C) 1977,1980,1984,1985
0000 7 ; DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
0000 8 ;
0000 9 ; THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
0000 10 ; COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
0000 11 ; ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
0000 12 ; MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
0000 13 ; EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
0000 14 ; TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
0000 15 ; REMAIN IN DEC.
0000 16 ;
0000 17 ; THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 18 ; AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 19 ; CORPORATION.
0000 20 ;
0000 21 ; DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 ; SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
0000 23 ;--
```

```
0000 25 ;**
0000 26 ; Facility:
0000 27 ;
0000 28 ; VAX Diagnostic Supervisor (part of the CRD-Loadable image).
0000 29 ;
0000 30 ; Abstract:
0000 31 ;
0000 32 ; This module contains the dispatch vectors that the Resident-DS
0000 33 ; routines need to access certain Loadable-CRD routines and locations (?).
0000 34 ;
0000 35 ; Environment:
0000 36 ;
0000 37 ; Not applicable
0000 38 ;
0000 39 ; Author:
0000 40 ;
0000 41 ; Jack Stansbury
0000 42 ;
0000 43 ; Date Written:
0000 44 ;
0000 45 ; March 30, 1982
0000 46 ;
0000 47 ; Modifications:
0000 48 ;
0000 49 ; 01 Jack Stansbury, June 21, 1982, Version 1.1
0000 50 ; Added CRD$Scan$Numeric and CRD$Exe$DeaNonPaged entry
0000 51 ; points for the Menu Test.
0000 52 ;
0000 53 ; 02 Jack Stansbury, July 27, 1982, Version 1.1
0000 54 ; Added the other (second) DS ^C handler address.
0000 55 ;
0000 56 ; 03 Jack Stansbury, August 19, 1982, Version 1.1
0000 57 ; Added two more dispatch vectors: Begin and CRD_Debug. Also
0000 58 ; changed the version number bytes from 1 to 2.
0000 59 ;
0000 60 ; 04 Jack Stansbury, September 10, 1982, Version 1.1
0000 61 ; Added the Boot$L_R5 address. This helps Menu Test decide
0000 62 ; from where it was invoked (by console, or by CRD CLI
0000 63 ; command).
0000 64 ;
0000 65 ; 05 Jack Stansbury, September 12, 1982, Version 1.1
0000 66 ; Took out the Boot$L_R5 longword (from above) and added the
0000 67 ; DSR$Check_MenuTest_Set and DSR$Check_AutoTest_Set routine
0000 68 ; addresses.
0000 69 ;
0000 70 ; 06 Jack Stansbury, March 3, 1983, Version ??
0000 71 ; Made changes similar to the changes in the DSVECS module to
0000 72 ; accomodate CRD's debug vectors.
0000 73 ;
0000 74 ; 07 John Ciukaj 5-Apr-1983 Version 1.2
0000 75 ; - Changed CRD$DSR$Check... vectors to distinguish between
0000 76 ; online and offline.
0000 77 ; - Changed revision level references [08] to [07]
0000 78 ;
0000 79 ; 08 Ron Parker 25-Feb-1985
```

ZZ-ENSAB-2.0 V1.09
CRDVECS
V1.09

*** CRDVECS Module

F 14
19-SEP-1985

Fiche 6 Frame F14

Sequence 1204

19-SEP-1985 17:14:13 VAX/VMS Macro V04-00
29-JUL-1985 12:10:56 [DS.CRD.V020]CRDVECS.MAR;1

Page 3
(1)

0000 80 ; - Added reference to DS\$GA_PTDESC
0000 81 ; - Added reference to DS\$ATTACH
0000 82 ;
0000 83 ; 09 Amy Iorio 29-July-1985
0000 84 ; Changed version comparison number from 3 to 10.
0000 85 ;--

ZZ-ENSAB-2.0 V1.09
CRDVECS
V1.09

G 14
Libraries and Macros 19-SEP-1985 Fiche 6 Frame G14 Sequence 1205
*** CRDVECS Module 19-SEP-1985 17:14:13 VAX/VMS Macro V04-00 Page 4
Libraries and Macros 29-JUL-1985 12:10:56 [DS.CRD.V020]CRDVECS.MAR;1 (1)

0000 87 .SubTitle Libraries and Macros
0000 88
0000 89 .Library /Sys\$Library:Lib/ ; Use Lib last
0000 90 .Library /\$DS/ ; Use DS.Mar second
0000 91 .Library /\$Diag/ ; Use Diag.Mar first

```

0000 93 .SubTitle The Dispatch Vectors
00000000 94 .Psect $Base, Shr, NoExe, Wrt, Long
0000 95
0000 96 ;+
0000 97 ; These four bytes are for verification purposes. See the
0000 98 ; Exchange_Dispat_Vectors routine in the CRDLoad.B32 module for more
0000 99 ; of an explanation of these bytes. Note that these vectors are in the
0000 100 ; $Base Psect. This Psect will be the first one in the Loadable-CRD
0000 101 ; image, thus causing the values and addresses below to appear at the
0000 102 ; DS$GA_LastAdr address in the Supervisor when the CRD image file is
0000 103 ; read into the Supervisor. Note: the # of vectors in the first byte
0000 104 ; MUST agree with the value of the CRD$K_Total_Numb_Vectors constant
0000 105 ; in the CRD.R32 library module.
0000 106 ;-
0000 107
0000 108
0000 109 CRD$AL_CRD_Dispatch_Vectors::
19 0000 110 .Byte 25 ; The number of dispatch [06]
0001 111 ; ... vectors [06]
0A 0001 112 .Byte 10 ; The positive version number [06][09]
F6 0002 113 .Byte -10 ; The negative version number [06][09]
00 0003 114 .Byte 0 ; The null byte
0004 115
0004 116 ;+
0004 117 ; These are the actual dispatch vectors. The CRD-Loadable routines use
0004 118 ; the global label below to access the DS routines and DS locations.
0004 119 ; The CRD$DS_Interface routine is the routine that the DS Print routine
0004 120 ; will call when something is about to be printed. Since the Resident-DS
0004 121 ; does not need access to any other routines/locations in the
0004 122 ; Loadable-CRD, the other addresses are set to null. Note that there
0004 123 ; must be a fixed number of dispatch vectors, an equal number in both
0004 124 ; the Resident-DS (which requires 4), and in the Loadable-CRD.
0004 125 ;-
0004 126
0004 127 CRD$Exit_DS:: ; DSV$Exit routine
00000000' 0004 128 .Address CRD$DS_Interface ; CRD's interface to the DS
0008 129
0008 130 CRD$Print:: ; DSX$Print routine
00000000' 0008 131 .Address 0 ; No other addresses needed
000C 132
000C 133 CRD$GA_DS_Flags:: ; DS$GL_Flags longword
00000000' 000C 134 .Address 0
0010 135
0010 136 CRD$GA_DS_Ctrl_C_First:: ; DS$GA_DS_Ctrl_C_First [02]
00000000' 0010 137 .Address 0 ; ... longword [02]
0014 138
0014 139 CRD$GA_PTable:: ; DS$GA_PTable longword
00000000' 0014 140 .Address 0
0018 141
0018 142 CRD$Exe$AloNonPaged:: ; Exe$AloNonPaged routine
00000000' 0018 143 .Address 0
001C 144
001C 145 CRD$GA_User_Error_Text:: ; The address of the MsgAdr
00000000' 001C 146 .Address 0 ; ... (from the ERRxxx macro) will
0020 147 ; ... be stored here.

```

```
00000000' 0020 148
00000000' 0020 149 CRD$Scan$Numeric:: ; Scan$Numeric routine [01]
00000000' 0020 150 .Address 0 ; ... (from the PARSE module) [01]
00000000' 0024 151
00000000' 0024 152 CRD$Exe$DeaNonPaged:: ; Exe$DeaNonPaged routine [01]
00000000' 0024 153 .Address 0 ; ... (from the MEMMGT module) [01]
00000000' 0028 154
00000000' 0028 155 CRD$GA_DS_Ctrl_C_Second:: ; DS$GA_DS_Ctrl_C_Second [02]
00000000' 0028 156 .Address 0 ; . . . longword [02]
00000000' 002C 157
00000000' 002C 158 CRD$GA_Begin:: ; The Begin label in the KERNEL [03]
00000000' 002C 159 .Address 0 ; . . . module. [03]
00000034' 0030 160
00000034' 0030 161 CRD$GB_CRD_Debug:: ; For debugging CRD [03]
00000034' 0030 162 .BIKL 1 ; . . . Can set this from VDS [03]
00000034' 0034 163 ; . . . This is byte-referenced [03]
00000034' 0034 164
00000000' 0034 165 CRD$DSR$Check_MenuTest_Off_Set:: ; The DSR$Check_MenuTest_Off_Set[07]
00000000' 0034 166 .Address 0 ; . . . routine from the KERNEL [05]
00000000' 0038 167 ; . . . module. [05]
00000000' 0038 168
00000000' 0038 169 CRD$DSR$Check_AutoTest_Off_Set:: ; The DSR$Check_AutoTest_Off_Set[07]
00000000' 0038 170 .Address 0 ; . . . routine from the KERNEL [05]
00000000' 003C 171 ; . . . module. [05]
00000000' 003C 172
00000000' 003C 173 CRD$DS$GA_PTDESC:: ; The DS$GA_PTDesc address [08]
00000000' 003C 174 .Address 0 ; . . . address from CRD_IMAGE [08]
00000000' 0040 175
00000000' 0040 176 ;+
00000000' 0040 177 ; These vectors are not currently used. They are here simply because [07]
00000000' 0040 178 ; the debug vectors require 25 such longwords to store all the debugging[07]
00000000' 0040 179 ; information. [07]
00000000' 0040 180 ;-
00000000' 0040 181
00000068' 0040 182 .BIKL <25-15> ; 25 = CRD$K_Total_Numb_Vectors [07]
00000068' 0068 183 ; 15 = # of above vectors [07]
00000068' 0068 184 .End
```

ZZ-ENSAB-2.0 Symbol table
CRDVECS
Symbol table

*** CRDVECS Module

J 14
19-SEP-1985

Fiche 6 Frame J14 Sequence 1208
19-SEP-1985 17:14:13 VAX/VMS Macro V04-00
29-JUL-1985 12:10:56 [DS.CRD.V020]CRDVECS.MAR;1

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(1)

CRD\$AL_CRD_DISPATCH_VECTORS	00000000	RG	01
CRD\$DS\$GA_PTDESC	0000003C	RG	01
CRD\$DSR\$CHECK_AUTOTEST_OFF_SET	00000038	RG	01
CRD\$DSR\$CHECK_MENUTEST_OFF_SET	00000034	RG	01
CRD\$DS_INTERFACE	*****	X	01
CRD\$EXE\$ALONONPAGED	00000018	RG	01
CRD\$EXE\$DEANONPAGED	00000024	RG	01
CRD\$EXIT_DS	00000004	RG	01
CRD\$GA_BEGIN	0000002C	RG	01
CRD\$GA_DS_CTRL_C_FIRST	00000010	RG	01
CRD\$GA_DS_CTRL_C_SECOND	00000028	RG	01
CRD\$GA_DS_FLAGS	0000000C	RG	01
CRD\$GA_PTABLE	00000014	RG	01
CRD\$GA_USER_ERROR_TEXT	0000001C	RG	01
CRD\$GB_CRD_DEBUG	00000030	RG	01
CRD\$PRINT	00000008	RG	01
CRD\$SCAN\$NUMERIC	00000020	RG	01

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes															
. ABS .	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$BASE	00000068 (104.)	01 (1.)	NOPIC	USR	CON	REL	LCL	SHR	NOEXE	RD	WRT	NOVEC	LONG					

! Symbol Cross Reference !

SYMBOL	VALUE	DEFINITION	REFERENCES...
CRD\$AL_CRD_DISPATCH_VECTORS	00000000-R	109 (1)	
CRD\$DS\$GA_PTDESC	0000003C-R	173 (1)	
CRD\$DSR\$CHECK_AUTOTEST_OFF_SET	00000038-R	169 (1)	
CRD\$DSR\$CHECK_MENUTEST_OFF_SET	00000034-R	165 (1)	
CRD\$DS_INTERFACE	00000000-XR		128 (1)
CRD\$EXE\$ALONONPAGED	00000018-R	142 (1)	
CRD\$EXE\$DEANONPAGED	00000024-R	152 (1)	
CRD\$EXIT_DS	00000004-R	127 (1)	
CRD\$GA_BEGIN	0000002C-R	158 (1)	
CRD\$GA_DS_CTRL_C_FIRST	00000010-R	136 (1)	
CRD\$GA_DS_CTRL_C_SECOND	00000028-R	155 (1)	
CRD\$GA_DS_FLAGS	0000000C-R	133 (1)	
CRD\$GA_PTABLE	00000014-R	139 (1)	
CRD\$GA_USER_ERROR_TEXT	0000001C-R	145 (1)	
CRD\$GB_CRD_DEBUG	00000030-R	161 (1)	
CRD\$PRINT	00000008-R	130 (1)	
CRD\$SCAN\$NUMERIC	00000020-R	149 (1)	

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	110	00:00:00.19	00:00:01.27
Command processing	887	00:00:00.68	00:00:01.62
Pass 1	634	00:00:00.76	00:00:01.93
Symbol table sort	0	00:00:00.00	00:00:00.03
Pass 2	15	00:00:00.25	00:00:00.58
Symbol table output	2	00:00:00.02	00:00:00.02
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	5	00:00:00.03	00:00:00.11
Assembler run totals	1657	00:00:01.95	00:00:05.59

The working set limit was 1862 pages.
 1776 bytes (4 pages) of virtual memory were used to buffer the intermediate code.
 There were 10 pages of symbol table space allocated to hold 17 non-local and 0 local symbols.
 184 source lines were read in Pass 1, producing 11 object records in Pass 2.
 0 pages of virtual memory were used to define 0 macros.

ZZ-ENSAB-2.0 VAX-11 Macro Run Statistics
CRDVECS *** CRDVECS Module
VAX-11 Macro Run Statistics

L 14
19-SEP-1985

Fiche 6 Frame L14 Sequence 1210
19-SEP-1985 17:14:13 VAX/VMS Macro V04-00
29-JUL-1985 12:10:56 [DS.CRD.V020]CRDVECS.MAR;1

Page 9
(1)

! Macro library statistics !

Macro library name	Macros defined
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.MLB;76	0
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.MLB;37	0
SYSSCOMMON:[SYSLIB]LIB.MLB;1	0
SYSSCOMMON:[SYSLIB]STARLET.MLB;1	0
TOTALS (all libraries)	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO CRDVECS.MAR/LIS=CRDVECS.LIS/OBJ=CRDVECS.OBJ/CROSS

ZZ-ENSAB-2.0 CRD MENU - Control C Handler
CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746
3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1 (1)

M 14

19-Sep-1985

Fiche 6 Frame M14

Sequence 1211

Page 1

```
: 0001 0 *TITLE 'CRD MENU - Control C Handler'
: 0002 0 MODULE MENCNTLC (
: 0003 0 IDENT = '01-00'
: 0004 0 ) =
: 0005 0 !
: 0006 0 ! COPYRIGHT (C) 1982
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
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: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 !
```

Z
M
0

```
: 0024 0 ! *
: 0025 0 ! FACILITY:
: 0026 0 !
: 0027 0 ! ABSTRACT:
: 0028 0 !
: 0029 0 ! ENVIRONMENT:
: 0030 0 !
: 0031 0 ! AUTHOR:
: 0032 0 !
: 0033 0 ! John Ciukaj May-1982
: 0034 0 !
: 0035 0 ! CREATION DATE:
: 0036 0 !
: 0037 0 ! VERSION:
: 0038 0 !
: 0039 0 ! Modified by:
: 0040 0 !
: 0041 0 ! [01] Scott Cohen June 28, 1983 Version 1.2
: 0042 0 ! Added soft console support
: 0043 0 ! --
: 0044 1 BEGIN ! Module MENCNTLC
```

```
: 0045 1 xSBTTL 'Libraries'
: 0046 1
: 0047 1
: 0048 1 LIBRARY
: 0049 1 '$DS';
: 0050 1 LIBRARY
: 0051 1 '$DIAG';
: 0052 1 LIBRARY
: 0053 1 '$CRD';
: 0054 1 LIBRARY
: 0055 1 'SYS$LIBRARY:LIB';
```

```
; 0056 1 %SBTTL 'Forward-External Routines'
; 0057 1
; 0058 1 FORWARD ROUTINE
; 0059 1   MEN$CntlC_Menu : ADDRESSING_MODE (LONG_RELATIVE),
; 0060 1   ! The ^C handler routine for the CRD Menu Test
; 0061 1
; 0062 1   MEN$CntlCInit_Tbl Init : ADDRESSING_MODE (LONG_RELATIVE),
; 0063 1   ! Initialize some table
; 0064 1
; 0065 1   MEN$CntlC_Tbl_Init : ADDRESSING_MODE (LONG_RELATIVE);
; 0066 1   ! Initialize some other table
```

```
; 0067 1 xSBTTL 'Psect Definitions'
; 0068 1
; 0069 1 PSECT
; 0070 1     PLIT = Data (NOEXECUTE, SHARE,    NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0071 1
; 0072 1 PSECT
; 0073 1     CODE = Code (EXECUTE,    SHARE,    NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0074 1
; 0075 1 PSECT
; 0076 1     OWN  = Work (NOEXECUTE, NOSHARE, WRITE,    ADDRESSING_MODE (LONG_RELATIVE));
; 0077 1
; 0078 1 PSECT
; 0079 1     GLOBAL = Work (NOEXECUTE, NOSHARE, WRITE,    ADDRESSING_MODE (LONG_RELATIVE));
```

ZZ-ENSAB-2.0 Macro and Literal Definitions E 15
MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 6 Frame E15
01-00 Macro and Literal Definitions 3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1 Page 6 Sequence 1216
(6)

```
; 0080 1 xSBTTL 'Macro and Literal Definitions'
; 0081 1
; 0082 1 $DS_DSADef; ! Define the DSA locations
; 0083 1 $CRD_Literals; ! Define the CRD literals
; 0084 1 $MEN_Literals; ! Define the Menu-specific literals
; 0085 1 $SCREEN_Literals; ! Define the SCREEN soft console literals
```

ZZ-ENSAB-2.0 Module - Global Static Storage F 15
MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame F15 Sequence 1217
01-00 Module - Global Static Storage 3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1 Page 7 (7)

; 0086 1 xSBTTL 'Module - Global Static Storage'
; 0087 1
; 0088 1 Modnam ('MENCNTLC'); ! Module Name for Errsup Macro

ZZ-ENSAB-2.0 Control C Initialization MENU Table G 15
MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame G15
01-00 Control C Initialization MENU Table 3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1 Page 8 (8)

```
; 0089 1 xSBTTL 'Control C Initialization MENU Table'
; 0090 1
; 0091 1 !+
; 0092 1 ! Contains information relevant to all selections available
; 0093 1 ! from the Control C Initialization Menu Table. This table is used
; 0094 1 ! for the Control C Menu selections for Control C's typed after
; 0095 1 ! CRD MENU is loaded and before the Functional Test Menu has been
; 0096 1 ! entered.
; 0097 1 ! Because the CRD MENU code is loadable it is necessary to invoke the
; 0098 1 ! Initialization routine associated with this table following loading
; 0099 1 ! and before the table is accessed (see MENTSTINI module).
; 0100 1 !-
```

```
; 0101 1 LITERAL
; 0102 1     MEN$GK_CntIC_InitTbl_Entries = 2;
; 0103 1
; 0104 1 OWN
; 0105 1     MEN$GA_CntIC_InitTbl: BLOCKVECTOR [ (MEN$GK_CntIC_InitTbl_Entries),
; 0106 1     MEN$K_CntICTbl_Entry_Size, BYTE]
; 0107 1     FIELD ($MEN_CntICTbl_Entry_FLD)
; 0108 1 INITIAL (
; 0109 1     BYTE (xC'A'),
; 0110 1     BYTE (MEN$K_CntIC_Sel_Exit),
; 0111 1     LONG (MEN$GT_CntIC_Sel_Exit),
; 0112 1
; 0113 1     BYTE (xC'B'),
; 0114 1     BYTE (MEN$K_CntIC_Sel_Continue),
; 0115 1     LONG (MEN$GT_CntIC_Sel_Continue)
; 0116 1
; 0117 1 );
```

```

: 0118 1 %SBTTL 'Control C Init. Menu Table Initialization Routine'
: 0119 1
: 0120 1 GLOBAL ROUTINE MEN$CntICInit_Tbl_Init =
: 0121 1
: 0122 1 !**
: 0123 1 ! FUNCTIONAL DESCRIPTION:
: 0124 1 !
: 0125 1 !   Since the CRD MENU TEST control code is a loadable image,
: 0126 1 !   link-time resolved address pointers must have an offset added
: 0127 1 !   to them. This is because the address pointers are resolved
: 0128 1 !   at link time with reference to a zero base address. However,
: 0129 1 !   at run time the code will be loaded at an address starting at
: 0130 1 !   CRD$AL_CRD_Dispatch_Vectors. Therefore, for all tables with text
: 0131 1 !   address pointers, add an offset equal to
: 0132 1 !   the value represented by the address location
: 0133 1 !   CRD$AL_CRD_Dispatch_Vectors!
: 0134 1 !
: 0135 1 ! INPUT PARAMETERS
: 0136 1 !
: 0137 1 ! OUTPUT PARAMETERS
: 0138 1 !
: 0139 1 ! IMPLICIT INPUTS
: 0140 1 !
: 0141 1 ! EXPLICIT OUTPUTS
: 0142 1 !
: 0143 1 ! SIDE EFFECTS
: 0144 1 !
: 0145 1 !   CntIC_InitTbl Init is specified True.
: 0146 1 !
: 0147 1 ! COMPLETION CODES
: 0148 1 !
: 0149 1 !   CRD$K_Success
: 0150 1 ! --

```

```

; 0151 2 BEGIN      ! Routine MEN$CntlCInit_Tbl_Init
; 0152 2   REGISTER
; 0153 2   Text_Ptr : REF VECTOR [, LONG],
; 0154 2   Index;
; 0155 2
; 0156 2   OWN
; 0157 2       Cntlc_InitTbl_Init : BYTE INITIAL (BYTE (False));
; 0158 2       ! Flag location indicating whether
; 0159 2       ! Table Text Address pointers
; 0160 2       ! have been initialized with
; 0161 2       ! offset address values to account
; 0162 2       ! for the fact that the code
; 0163 2       ! is loaded at a dynamic address
; 0164 2       ! location.
; 0165 2       ! 1 or True  = Table Initialized
; 0166 2       ! 0 or False = Table not initialized
; 0167 2
; 0168 2   !+
; 0169 2   ! Perform initialization only once
; 0170 2   !-
; 0171 2
; 0172 2   IF (NOT .Cntlc_InitTbl_Init) THEN
; 0173 3   BEGIN
; 0174 3   !+
; 0175 3   ! Initialize Address Pointers
; 0176 3   !-
; 0177 3
; 0178 3   Index = -1;
; 0179 3   WHILE ((Index = .Index + 1) LSS MEN$GK_Cntlc_InitTbl_Entries) DO
; 0180 4   BEGIN
; 0181 4       Text_Ptr = MEN$GA_Cntlc_InitTbl [.Index, CntlcTbl$L_Entry_Text];
; 0182 4       ! Address of text pointer
; 0183 4       Text_Ptr [0] = .Text_Ptr [0] + CRD$AL_CRD_Dispatch_Vectors;
; 0184 4       ! Add offset
; 0185 3   END;
; 0186 3   Cntlc_InitTbl_Init = True; ! Indicate that Initialization is done
; 0187 2   END;
; 0188 2   RETURN (CRD$K_Success);
; 0189 1 END;      ! Routine MEN$CntlCInit_Tbl_Init

```

```

.TITLE MENCNTLC CRD MENU - Control C Handler
.IDENT \01-00\

```

```

.PSECT WORK,NOEXE,2

```

```

41 00000 MEN$GA_CNTLC_INITTBL:
   .BYTE 65 ;
01 00001 .BYTE 1 ;
00000000G 00002 .ADDRESS MEN$GT_CNTLC_SEL_EXIT ;
42 00006 .BYTE 66 ;
02 00007 .BYTE 2 ;
00000000G 00008 .ADDRESS MEN$GT_CNTLC_SEL_CONTINUE ;
00 0000C CNTLC_INITTBL_INIT:
   .BYTE 0 ;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

43 4C 54 4E 43 4E 45 4D 08 00000 P.AAA: .ASCII <8>\MENCNTLC\ ;

DSA\$AL_APTMAIL= 65024
DSA\$GL_FLAGS= 65024
DSA\$GL_APTCOM= 65028
DSA\$GL_PASSES= 65032
DSA\$GL_UNITS= 65036
DSA\$GL_SECTNO= 65040
DSA\$GL_SID= 65044
DSA\$GL_MSGTYP= 65088
DSA\$GL_ERRNO= 65092
DSA\$GL_EVENT= 65096
DSA\$GL_SUBTNO= 65100
DSA\$GL_TESTNO= 65104
DSA\$GL_PASSNO= 65108
DSA\$GL_DEVLEN= 65112
DSA\$GL_DEVNAM= 65116
DSA\$GL_MSGPTR= 65128

\$MODULE= P.AAA

.EXTRN MENS\$CNTLC_MENU, MENS\$CNTLCINIT_TBL_INIT
.EXTRN MENS\$CNTLC_TBL_INIT
.EXTRN MENS\$GT_CNTLC_SEL_EXIT
.EXTRN MENS\$GT_CNTLC_SEL_CONTINUE
.EXTRN CRD\$AL_CRD_DISPATCH_VECTORS

.PSECT CODE,NOWRT, SHR, PIC,2

0004 00000 .ENTRY MENS\$CNTLCINIT_TBL_INIT, Save R2 ; 0120
29 00000000' EF E8 00002 BLBS CNTLC_INITTBL_INIT, 3\$; 0172
51 01 CE 00009 MNEGL #1, INDEX ; 0178
16 11 0000C BRB 2\$; 0179
52 51 06 C5 0000E 1\$: MULL3 #6, INDEX, R2 ; 0181
50 00000000' EF42 9E 00012 MOVAB MENS\$GA_CNTLC_INITTBL+2(R2), TEXT_PTR ;
52 00000000G EF 9E 0001A MOVAB CRD\$AL_CRD_DISPATCH_VECTORS, R2 ; 0183
60 52 C0 00021 ADDL2 R2, (TEXT_PTR) ;
51 D6 00024 2\$: INCL INDEX ; 0179
02 51 D1 00026 CMPL INDEX, #2 ;
E3 19 00029 BLSS 1\$;
00000000' EF 01 90 0002B MOVB #1, CNTLC_INITTBL_INIT ; 0186
50 01 D0 00032 3\$: MOVL #1, R0 ; 0188
04 00035 RET ; 0189

; Routine Size: 54 bytes, Routine Base: CODE + 0000

```
; 0190 1 xSBTTL 'Control C MENU Table'
; 0191 1 !*
; 0192 1 ! Contains information relevant to all selections available
; 0193 1 ! from the Control C Menu Table. This table is used
; 0194 1 ! for the Control C Menu selections for Control C's typed after
; 0195 1 ! the Functional Test Menu has been
; 0196 1 ! entered.
; 0197 1 ! Because the CRD MENU code is loadable it is necessary to invoke the
; 0198 1 ! Initialization routine associated with this table following loading
; 0199 1 ! and before the table is accessed (see MENTSTINI module).
; 0200 1 !-
```

```

: 0201 1 LITERAL
: 0202 1   MEN$GK_CntIC_Tbl_Entries = 3;
: 0203 1
: 0204 1 OWN
: 0205 1   MEN$GA_CntIC_Tbl: BLOCKVECTOR [ (MEN$GK_CntIC_Tbl_Entries),
: 0206 1     MEN$K_CntIC_Tbl_Entry_Size, BYTE]
: 0207 1   FIELD ($MEN_CntIC_Tbl_Entry_FLD)
: 0208 1   INITIAL (
: 0209 1     BYTE (xC'A'),
: 0210 1     BYTE (MEN$K_CntIC_Sel_Exit),
: 0211 1     LONG (MEN$GT_CntIC_Sel_Exit),
: 0212 1
: 0213 1     BYTE (xC'B'),
: 0214 1     BYTE (MEN$K_CntIC_Sel_FTMenu),
: 0215 1     LONG (MEN$GT_CntIC_Sel_FTMenu),
: 0216 1
: 0217 1     BYTE (xC'C'),
: 0218 1     BYTE (MEN$K_CntIC_Sel_Continue),
: 0219 1     LONG (MEN$GT_CntIC_Sel_Continue)
: 0220 1
: 0221 1   );

```

```

: 0222 1 *SBTTL 'Control C Menu Table Initialization Routine'
: 0223 1
: 0224 1 GLOBAL ROUTINE MEN$CntIC_Tbl_Init =
: 0225 1
: 0226 1 !**
: 0227 1 ! FUNCTIONAL DESCRIPTION:
: 0228 1
: 0229 1 ! Since the CRD MENU TEST control code is a loadable image,
: 0230 1 ! link-time resolved address pointers must have an offset added
: 0231 1 ! to them. This is because the address pointers are resolved
: 0232 1 ! at link time with reference to a zero base address. However,
: 0233 1 ! at run time the code will be loaded at an address starting at
: 0234 1 ! CRD$AL_CRD_Dispatch_Vectors. Therefore, for all tables with text
: 0235 1 ! address pointers, add an offset equal to
: 0236 1 ! the value represented by the address location
: 0237 1 ! CRD$AL_CRD_Dispatch_Vectors!
: 0238 1
: 0239 1 ! INPUT PARAMETERS
: 0240 1
: 0241 1 ! OUTPUT PARAMETERS
: 0242 1
: 0243 1 ! IMPLICIT INPUTS
: 0244 1
: 0245 1 ! EXPLICIT OUTPUTS
: 0246 1
: 0247 1 ! SIDE EFFECTS
: 0248 1
: 0249 1 ! CntIC_Tbl_Init is specified True.
: 0250 1
: 0251 1 ! COMPLETION CODES
: 0252 1
: 0253 1 ! CRD$K_Success
: 0254 1 ! --

```



```

; 0255 2 BEGIN      ! Routine MEN$Cntlc_Tbl_Init
; 0256 2   LOCAL
; 0257 2   Text_Ptr : REF VECTOR [, LONG],
; 0258 2   Index;
; 0259 2
; 0260 2   OWN
; 0261 2       Cntlc_Tbl_Init : BYTE INITIAL (BYTE (False));
; 0262 2       ! Flag location indicating whether
; 0263 2       ! Table Text Address pointers
; 0264 2       ! have been initialized with
; 0265 2       ! offset address values to account
; 0266 2       ! for the fact that the code
; 0267 2       ! is loaded at a dynamic address
; 0268 2       ! location.
; 0269 2       ! 1 or True = Table initialized
; 0270 2       ! 0 or False = Table not initialized
; 0271 2
; 0272 2   !+
; 0273 2   ! Perform initialization only once
; 0274 2   !-
; 0275 2
; 0276 3   IF (NOT .Cntlc_Tbl_Init)
; 0277 2   THEN
; 0278 3   BEGIN
; 0279 3   !+
; 0280 3   ! Initialize Address Pointers
; 0281 3   !-
; 0282 3
; 0283 3   Index = -1;
; 0284 3   WHILE ((Index = .Index + 1) LSS MEN$GK_Cntlc_Tbl_Entries) DO
; 0285 4   BEGIN
; 0286 4       Text_Ptr = MEN$GA_Cntlc_Tbl [.Index, CntlcTbl$L_Entry_Text];
; 0287 4       ! Address of text pointer
; 0288 4       Text_Ptr [0] = .Text_Ptr [0] + CRD$AL_CRD_Dispatch_Vectors;
; 0289 4       ! Add offset
; 0290 3   END;
; 0291 3   Cntlc_Tbl_Init = True; ! Indicate that Initialization is done
; 0292 2   END;
; 0293 2   RETURN (CRD$K_Success);
; 0294 1 END;      ! Routine MEN$Cntlc_Tbl_Init
  
```

.PSECT WORK,NOEXE,2

```

0000D .BLKB 3
41 00010 MEN$GA_CNTLC_TBL:
    .BYTE 65 ;
01 00011 .BYTE 1 ;
00000000G 00012 .ADDRESS MEN$GT_CNTLC_SEL_EXIT ;
42 00016 .BYTE 66 ;
03 00017 .BYTE 3 ;
00000000G 00018 .ADDRESS MEN$GT_CNTLC_SEL_FTMENU ;
43 0001C .BYTE 67 ;
02 0001D .BYTE 2 ;
  
```

```

00000000G 0001E .ADDRESS MEN$GT_CNTLC_SEL_CONTINUE ;
00 00022 CNTLC_TBL_INIT:
    .BYTE 0 ;

    .EXTRN MEN$GT_CNTLC_SEL_FTMENU

    .PSECT CODE,NOWRT, SHR, PIC,2

    0004 00000 .ENTRY MEN$CNTLC_TBL_INIT, Save R2 ; 0224
29 00000000' EF E8 00002 BLBS CNTLC_TBL_INIT, 3$ ; 0276
50 01 CE 00009 MNEGL #1, INDEX ; 0283
16 11 0000C BRB 2$ ; 0284
51 50 06 C5 0000E 1$: MULL3 #6, INDEX, R1 ; 0286
52 00000000' EF41 9E 00012 MOVAB MEN$GA_CNTLC_TBL+2(R1), TEXT_PTR ;
51 00000000G EF 9E 0001A MOVAB CRD$AL_CRD_DISPATCH_VECTORS, R1 ; 0288
62 51 C0 00021 ADDL2 R1, (TEXT_PTR) ;
50 D6 00024 2$: INCL INDEX ; 0284
03 50 D1 00026 CMPL INDEX, #3 ;
E3 19 00029 BLSS 1$ ;
00000000' EF 01 90 0002B MOVB #1, CNTLC_TBL_INIT ; 0291
50 01 D0 00032 3$: MOVL #1, R0 ; 0293
04 00035 RET ; 0294
  
```

; Routine Size: 54 bytes, Routine Base: CODE + 0036

ZZ-ENSAB-2.0 Control C Menu Handler Routine
 MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746
 01-00 Control C Menu Handler Routine 3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1

D 16

19-Sep-1985

Fiche 6

Frame D16

Sequence 1228

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```

: 0295 1 xSBTTL 'Control C Menu Handler Routine'
: 0296 1
: 0297 1 GLOBAL ROUTINE MEN$CntIC_Menu =
: 0298 1
: 0299 1 !+
: 0300 1 ! FUNCTIONAL DESCRIPTION:
: 0301 1 !
: 0302 1 ! INPUT PARAMETERS
: 0303 1 !
: 0304 1 ! OUTPUT PARAMETERS
: 0305 1 !
: 0306 1 ! IMPLICIT INPUTS
: 0307 1 !
: 0308 1 ! EXPLICIT OUTPUTS
: 0309 1 !
: 0310 1 ! SIDE EFFECTS
: 0311 1 !
: 0312 1 !     If operator chooses 'Exit' from menu then CRD MENU TEST is aborted
: 0313 1 !     by calling CRD$Stop.
: 0314 1 !
: 0315 1 ! COMPLETION CODES
: 0316 1 !
: 0317 1 !     CRD$K_Success
: 0318 1 !
: 0319 1 ! --

```

```

: 0320 2 BEGIN      ! Routine MEN$CNTLC_MENU
: 0321 2   REGISTER
: 0322 2   Entry_Ptr : REF $MEN_CntICTbl_Entry_ATTR,
: 0323 2   CntIC_Tbl_Index,
: 0324 2   Prompt   : BYTE,
: 0325 2   Oper    : BYTE,
: 0326 2   Valid_Status;
: 0327 2
: 0328 2   LOCAL
: 0329 2   CntIC_Tbl_Entries,
: 0330 2   CntIC_Tbl_Ptr   : REF BLOCKVECTOR [, MEN$K_CntICTbl_Entry_Size, BYTE)
: 0331 2   FIELD ($MEN_CntICTbl_Entry_Fld),
: 0332 2   Valid_Alpha_Upper : VECTOR [CH$ALLOCATION (1)],
: 0333 2   Valid_Alpha_Lower : VECTOR [CH$ALLOCATION (1)];
: 0334 2
: 0335 2   LITERAL
: 0336 2   OperInput_Buffer_Sz = 132;
: 0337 2
: 0338 2   LOCAL
: 0339 2   OperInput_Buffer : VECTOR [OperInput_Buffer_Sz, BYTE];
: 0340 2
: 0341 2   BIND
: 0342 2   T_Prompt_Default = $ASCIC ('?') : VECTOR [,BYTE];
: 0343 2
: 0344 2   !+
: 0345 2   !-----
: 0346 2   ! LOCAL ROUTINE:
: 0347 2   !   Type_Control_C_Menu
: 0348 2   !   Type the options for the control-c menu
: 0349 2   !-----
: 0350 2   !-
: 0351 2
: 0352 2   ROUTINE Type_Control_C_Menu (Control_C_Table_Ptr, Control_C_Table_Entries) : NOVALUE =
: 0353 3   BEGIN
: 0354 3   REGISTER
: 0355 3   CntIC_Tbl_Index,
: 0356 3   Select_Alpha_Ptr,
: 0357 3   Select_Text_Ptr;
: 0358 3
: 0359 3   BIND
: 0360 3   CntIC_Tbl_Ptr   = (.Control_C_Table_Ptr),
: 0361 3   CntIC_Tbl_Entries = (.Control_C_Table_Entries);
: 0362 3
: 0363 3   MAP
: 0364 3   CntIC_Tbl_Ptr : REF BLOCKVECTOR [, MEN$K_CntICTbl_Entry_Size, BYTE)
: 0365 3   FIELD ($MEN_CntICTbl_Entry_Fld);
: 0366 3
: 0367 3   !+
: 0368 3   ! Print the Control-C Menu title
: 0369 3   !-
: 0370 3
: 0371 3   $CRD_Message (New_Line, MEN$GT_CntIC_Menu_Title);
: 0372 3
: 0373 3   !+
: 0374 3   ! Print the Menu Selections from the appropriate Control C table

```

```

; 0375 3  !-
; 0376 3
; 0377 4  IF (NOT .MEN$GB_FncTst_Init)
; 0378 3  THEN
; 0379 4  BEGIN
; 0380 4    CntIC_Tbl_Ptr    = MEN$GA_CntIC_InitTbl;
; 0381 4    CntIC_Tbl_Entries = MEN$GK_CntIC_InitTbl_Entries;
; 0382 4  END
; 0383 3  ELSE
; 0384 4  BEGIN
; 0385 4    CntIC_Tbl_Ptr    = MEN$GA_CntIC_Tbl;
; 0386 4    CntIC_Tbl_Entries = MEN$GK_CntIC_Tbl_Entries;
; 0387 3  END;
; 0388 3
; 0389 3  CntIC_Tbl_Index = -1;
; 0390 3
; 0391 3  WHILE ((CntIC_Tbl_Index = .CntIC_Tbl_Index + 1) LSS .CntIC_Tbl_Entries) DO
; 0392 4  BEGIN
; 0393 4    Select_Alpha_Ptr = CntIC_Tbl_Ptr [.CntIC_Tbl_Index, CntICTbl$B_Entry_Alpha];
; 0394 4    Select_Text_Ptr  = .CntIC_Tbl_Ptr [.CntIC_Tbl_Index, CntICTbl$L_Entry_Text];
; 0395 4
; P 0396 4    $CRD_Message (New_Line,
; P 0397 4      MEN$GT_CntIC_Menu_Selection,
; P 0398 4      1,      ! Length of selection choice Alpha
; P 0399 4      .Select_Alpha_Ptr, ! Address of Alpha
; P 0400 4      .Select_Text_Ptr ! Address of selection text ASCII
; 0401 4    );
; 0402 3  END;
; 0403 3
; 0404 3  $CRD_Message (New_Line, MEN$GT_CntICM_Choice);
; 0405 2  END;      ! Routine Type_Control_C_Menu

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

3F 01 00009 P.AAB: .ASCII <1>\?\ ;

T_PROMPT_DEFAULT= P.AAB
 .EXTRN MEN\$GT_CNTLC_MENU_TITLE
 .EXTRN CRD\$GT_NEW_LINE_MESSAGE
 .EXTRN CRD\$PRINT, MEN\$GB_FNCST_INIT
 .EXTRN MEN\$GT_CNTLC_MENU_SELECTION
 .EXTRN MEN\$GT_CNTLCM_CHOICE

.PSECT CODE,NOWRT, SHR, PIC,2

```

001C 00000 TYPE_CONTROL_C_MENU:
.WORD Save R2,R3,R4 ; 0352
00000000G EF 9F 00002 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0371
01 DD 00008 PUSHL #1 ;
1A DD 0000A PUSHL #26 ;
00000000G FF 03 FB 0000C CALLS #3, aCRD$PRINT ;
00000000G EF 9F 00013 PUSHAB MEN$GT_CNTLC_MENU_TITLE ;
01 DD 00019 PUSHL #1 ;

```

```

    1A DD 0001B   PUSHL   #26
00000000G FF    03 FB 0001D   CALLS   #3, aCRD$PRINT
    0E 00000000G EF E8 00024   BLBS    MEN$GB_FNCTST_INIT, 1$
04 BC 00000000' EF 9E 0002B   MOVAB   MEN$GA_CNTLC_INITTBL, aCONTROL_C_TABLE_PTR ; 0380
08 BC          02 D0 00033   MOVL     #2, aCONTROL_C_TABLE_ENTRIES ; 0381
    0C 11 00037   BRB      2$
    04 BC 00000000' EF 9E 00039 1$: MOVAB   MEN$GA_CNTLC_TBL, aCONTROL_C_TABLE_PTR ; 0385
08 BC          03 D0 00041   MOVL     #3, aCONTROL_C_TABLE_ENTRIES ; 0386
    52          01 CE 00045 2$: MNEGL   #1, CNTLC_TBL_INDEX ; 0389
    39 11 00048   BRB      4$
    50 04 BC D0 0004A 3$: MOVL     aCONTROL_C_TABLE_PTR, R0 ; 0393
    51          52 06 C5 0004E   MULL3   #6, CNTLC_TBL_INDEX, R1 ;
    53          50 51 C1 00052   ADDL3   R1, R0, SELECT_ALPHA_PTR ;
02 A140 9F 00056   PUSHAB  2(R1)(R0) ; 0394
    54          9E D0 0005A   MOVL     a(SP)+, SELECT_TEXT_PTR ;
00000000G EF 9F 0005D   PUSHAB  CRD$GT_NEW_LINE_MESSAGE ; 0401
    01 DD 00063   PUSHL   #1
    1A DD 00065   PUSHL   #26
00000000G FF    03 FB 00067   CALLS   #3, aCRD$PRINT
    18 BB 0 5E     PUSHHR   #^M<R3,R4>
    01 DD 00070   PUSHL   #1
00000000G EF 9F 00072   PUSHAB  MEN$GT_CNTLC_MENU_SELECTION ;
    01 DD 00078   PUSHL   #1
    1A DD 0007A   PUSHL   #26
00000000G FF    06 FB 0007C   CALLS   #6, aCRD$PRINT
    52 D6 00083 4$: INCL     CNTLC_TBL_INDEX ; 0391
08 BC          52 D1 00085   CMPL     CNTLC_TBL_INDEX, aCONTROL_C_TABLE_ENTRIES ;
    BF 19 00089   BLSS    3$
00000000G EF 9F 0008B   PUSHAB  CRD$GT_NEW_LINE_MESSAGE ; 0404
    01 DD 00091   PUSHL   #1
    1A DD 00093   PUSHL   #26
00000000G FF    03 FB 00095   CALLS   #3, aCRD$PRINT
00000000G EF 9F 0009C   PUSHAB  MEN$GT_CNTLCM_CHOICE ;
    01 DD 000A2   PUSHL   #1
    1A DD 000A4   PUSHL   #26
00000000G FF    03 FB 000A6   CALLS   #3, aCRD$PRINT
    04 000AD   RET          ; 0405
  
```

; Routine Size: 174 bytes, Routine Base: CODE + 006C

```

; 0406 2
; 0407 2 !+
; 0408 2 !-----
; 0409 2 ! MAIN ROUTINE:
; 0410 2 ! MEN$Cntlc_Menu
; 0411 2 !-----
; 0412 2 !-
; 0413 2
; 0414 2 CRD$Disable_Ctrl_C (); ! Disable catching ^C's
; 0415 2 CRD$Clear_Ctrl_C_Handlers (); ! Clear out the handler routine addresses
; 0416 2 CRD$Clear_Ctrl_C_Flag (); ! Clear the DS$GL_Flags <DS$V_CtrlC> flag
; 0417 2
; 0418 2 !+
; 0419 2 ! Prompt for operator input until a valid menu selection is entered
  
```

```

; 0420 2      !-
; 0421 2
; 0422 2      Valid_Status = False;
; 0423 2
; 0424 2      DO
; 0425 3      BEGIN
; 0426 3      Type_Control_C_Menu (CntIC_Tbl_Ptr, CntIC_Tbl_Entries);
; 0427 3
; 0428 3      Prompt = .DSA$V_Prompt;
; 0429 3      Oper   = .DSA$V_Oper;
; 0430 3
; 0431 3      CRD$GB_User_Prompt_Okay = True; ! Allow User_Prompt typecode to pass through CRD untouched.
; 0432 3      DSA$V_Prompt = On; ! Turn on PROMPTing to allow prompts from the operator
; 0433 3      DSA$V_Oper   = On; ! Turn on OPER to allow prompts from the operator
; 0434 3
; P 0435 4      IF ($MEN_ASKSTR (Msg_Adr = MEN$GT_CntIC_Menu_Prompt,
; P 0436 4          Buf_Adr = OperInput_Buffer,
; 0437 4          Def_Adr = T_Prompt_Default))
; 0438 3      THEN
; 0439 4          BEGIN
; 0440 4          CntIC_Tbl_Index = -1;
; 0441 4
; 0442 5          WHILE ((CntIC_Tbl_Index = .CntIC_Tbl_Index + 1) LSS (.CntIC_Tbl_Entries) AND
; 0443 4          (NOT .Valid_Status)) DO
; 0444 5          BEGIN
; 0445 5          Entry_Ptr = CntIC_Tbl_Ptr [.CntIC_Tbl_Index, CntIC_Tbl$B_Entry_Alpha];
; 0446 5          Valid_Alpha_Upper = .Entry_Ptr [CntIC_Tbl$B_Entry_Alpha];
; 0447 5          Valid_Alpha_Lower = .Valid_Alpha_Upper + %X'20';
; 0448 5
; 0449 5          Valid_Status = CH$EQL (1, Valid_Alpha_Upper, .OperInput_Buffer [0], OperInput_Buffer [1]) OR
; 0450 5          CH$EQL (1, Valid_Alpha_Lower, .OperInput_Buffer [0], OperInput_Buffer [1]);
; 0451 4          END;
; 0452 3          END;
; 0453 3
; 0454 4          IF (NOT .Valid_Status)
; 0455 3          THEN
; 0456 3              !+
; 0457 3              ! If <CRLF> or ^C was typed don't type message, just prompt again.
; 0458 3              ! Both of these operator inputs will load the operator buffer
; 0459 3              ! with a default.
; 0460 3              !-
; 0461 3
; 0462 4              IF (NOT CH$EQL (.OperInput_Buffer [0], OperInput_Buffer [1],
; 0463 4              .T_Prompt_Default [0], T_Prompt_Default [1] ))
; 0464 3              THEN
; 0465 3                  $CRD_Message ( New_Line, MEN$GT_InvOperInput);
; 0466 3          END ! DO ... BEGIN ...
; 0467 2          UNTIL (.Valid_Status); ! Repeat till we get a good answer
; 0468 2
; 0469 2          CRD$GB_User_Prompt_Okay = False; ! Disallow User_Prompt typecode to pass through CRD untouched.
; 0470 2          DSA$V_Prompt = .Prompt; ! Restore PROMPT flag
; 0471 2          DSA$V_Oper   = .Oper; ! Restore OPER flag
; 0472 2
; 0473 2          !+
; 0474 2          ! Now use the ^C Menu Selection table entry chosen to decide what to do

```

```

; 0475 2  !-
; 0476 2
; 0477 2  CASE (.Entry_Ptr [CntlCTbl$B_Entry_CntlCSEL]) FROM 1 TO (MEN$K_CntlC_Sel_Last_Entry - 1) OF
; 0478 2  SET
; 0479 2  [MEN$K_CntlC_Sel_Exit ]:
; 0480 2  !-
; 0481 2  ! Don't worry about resetting the DisabICC bit in the DS$GL_Flags longword because we are
; 0482 2  ! stopping CRD Menu Test here.
; 0483 2  !-
; 0484 2
; 0485 2  CRD$Stop (MENU$K_Exit_Operator_Abort);
; 0486 2
; 0487 2  [MEN$K_CntlC_Sel_Continue ]:
; 0488 2  !-
; 0489 2  ! Clear the CtrIC bit so that the CtrIC handler will not be called
; 0490 2  ! when enabled, due to ^C's being typed when CtrIC was disabled.
; 0491 2  ! Reset the DisabICC bit in the DS$GL_Flags longword so that ^C's can be typed again, and will
; 0492 2  ! be recognized by the VDS. Also, reset the handler addresses.
; 0493 2  !-
; 0494 2
; 0495 3  BEGIN
; 0496 3  $CRD_Message (New_Line, MEN$GT_CntlC_Continuing);
; 0497 3  CRD$Set_Ctrl_C_Handlers (MEN$CntlC_Menu, MEN$CntlC_Menu);
; 0498 3  CRD$Clear_Ctrl_C_Flag (); ! Clear the DS$GL_Flags <DS$V_CtrIC> flag
; 0499 3  CRD$Enable_Ctrl_C ();
; 0500 3
; 0501 4  RETURN (CRD$K_Success)
; 0502 2  END;
; 0503 2
; 0504 2  [MEN$K_CntlC_Sel_FTMENU ]:
; 0505 2  !-
; 0506 2  ! Clear the CtrIC bit so that the CtrIC handler will not be called
; 0507 2  ! when enabled, due to ^C's being typed when CtrIC was disabled.
; 0508 2  ! Go back to the Main Menu. This will be accomplished by JSB'ing to the BEGIN_BLISS label
; 0509 2  ! in the KERNEL module. That code will reset the FP, fixup the stack pointer, etc., then
; 0510 2  ! it will call the DS$Cli routine. It, in turn, calls the DS_Superline routine which will
; 0511 2  ! print the DS> prompt, causing CRD to be called. This causes the Main Menu to be printed.
; 0512 2  !-
; 0513 2  ! Reset the DisabICC bit in the DS$GL_Flags longword so that ^C's can be typed again, and will
; 0514 2  ! be recognized by the VDS. Also, reset the two ^C handler routine addresses.
; 0515 2  !-
; 0516 2
; 0517 3  BEGIN
; 0518 3  CRD$Set_Ctrl_C_Handlers (MEN$CntlC_Menu, MEN$CntlC_Menu);
; 0519 3  CRD$Clear_Ctrl_C_Flag (); ! Clear the DS$GL_Flags <DS$V_CtrIC> flag
; 0520 3
; 0521 3  CRD$GB_Current_State_Table = MEN$K_MM_State_Table;
; 0522 3  ! Set the current state table to the Main Menu
; 0523 3
; 0524 3  CRD$GL_MM_Current_State = MM$K_State_Print_Menu;
; 0525 3  ! Set the MM state to print the Main Menu
; 0526 3
; 0527 3  CRD$GL_TQ_Current_State = TQ$K_State_Init_TQ;
; 0528 3  ! Reset the TQ state number to it's initial state
; 0529 3

```


ZZ-ENSAB-2.0 Control C Menu Handler Routine J 16
 MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame J16
 01-00 Control C Menu Handler Routine 3-Jan-1985 17:02:33 (DS.CRD.V020)MENCNTLC.B32;1 Page 24

Sequence 1234

```

: 0530 3 CRD$GL_HS_Current_State = HS$K_State_Init_HS;
: 0531 3 ! Reset the HS state number to it's initial state
: 0532 3
: 0533 3 CRD$Enable_Ctrl_C (); ! Re-enable ^C' recognition
: 0534 3
: 0535 3 CRD$Screen_Pause (SCREEN$K_Clear_Screen);
: 0536 3 ! Clear screen before returning to Main Menu [01]
: 0537 3
: 0538 3 JSB_Begin (.CRD$GA_Begin); ! JSB to the BEGIN label in the KERNEL module
: 0539 3 ! NOTE: This will not return to here!!!!
: 0540 4 RETURN (CRD$K_Success)
: 0541 2 END;
: 0542 2
: 0543 2 TES;
: 0544 2
: 0545 3 RETURN (CRD$K_Success)
: 0546 1 END; ! Routine MEN$Cntlc_CMenu

```

```

.EXTRN CRD$DISABLE_CTRL_C
.EXTRN CRD$CLEAR_CTRL_C_HANDLERS
.EXTRN CRD$CLEAR_CTRL_C_FLAG
.EXTRN CRD$GB_USER_PROMPT_OKAY
.EXTRN MEN$GT_CNTLC_MENU_PROMPT
.EXTRN DS$BREAK, DS$ASKSTR
.EXTRN MEN$GT_INVOPERINPUT
.EXTRN CRD$STOP, MEN$GT_CNTLC_CONTINUING
.EXTRN CRD$SET_CTRL_C_HANDLERS
.EXTRN CRD$ENABLE_CTRL_C
.EXTRN CRD$GB_CURRENT_STATE_TABLE
.EXTRN CRD$GL_MM_CURRENT_STATE
.EXTRN CRD$GL_TQ_CURRENT_STATE
.EXTRN CRD$GL_HS_CURRENT_STATE
.EXTRN CRD$SCREEN_PAUSE
.EXTRN CRD$GA_BEGIN

```

```

0FFC 00000 .ENTRY MEN$CNTLC_MENU, Save R2,R3,R4,R5,R6,R7,R8,- ; 0297
R9,R10,R11
5E FF6C CE 9E 00002 MOVAB -148(SP), SP ;
00000000G EF 16 00007 JSB CRD$DISABLE_CTRL_C ; 0414
00000000G EF 16 0000D JSB CRD$CLEAR_CTRL_C_HANDLERS ; 0415
00000000G EF 16 00013 JSB CRD$CLEAR_CTRL_C_FLAG ; 0416
58 D4 00019 CLRL VALID_STATUS ; 0422
5E DD 0001B 1$: PUSHL SP ; 0426
08 AE 9F 0001D PUSHAB CNTLC_TBL_PTR ;
FF2D CF 02 FB 00020 CALLS #2, TYPE_CONTROL_C_MENU ;
50 0000FE01 9F 01 05 EF 00025 EXTZV #5, #1, a#^X0000FE01, R0 ; 0428
56 50 90 0002E MOVB R0, PROMPT ;
50 0000FE01 9F 01 04 EF 00031 EXTZV #4, #1, a#^X0000FE01, R0 ; 0429
57 50 90 0003A MOVB R0, OPER ;
00000000G EF 01 90 0003D MOVB #1, CRD$GB_USER_PROMPT_OKAY ; 0431
0000FE01 9F 30 88 00044 BISB2 #48, a#^X0000FE01 ; 0433
00000000G 9F 00 FB 0004B CALLS #0, a#DS$BREAK ; 0437
7E D4 00052 CLRL -(SP) ;

```

```

00000000' EF 9F 00054 PUSHAB T_PROMPT_DEFAULT ;
7E D4 0005A CLRL -(SP) ;
7E 48 8F 9A 0005C MOVZBL #72, -(SP) ;
20 AE 9F 00060 PUSHAB OPERINPUT_BUFFER ;
00000000G EF 9F 00063 PUSHAB MEN$GT_CNTLC_MENU_PROMPT ;
00000000G 9F 06 FB 00069 CALLS #6, a#DS$ASKSTR ;
52 50 D0 00070 MOVL R0, STATUS ;
00000000G 9F 00 FB 00073 CALLS #0, a#DS$BREAK ;
4A 52 E9 0007A BLBC STATUS, 6$ ;
55 01 CE 0007D MNEGL #1, CNTLC_TBL_INDEX ; 0440
3B 11 00080 BRB 5$ ; 0449
50 55 06 C5 00082 2$: MULL3 #6, CNTLC_TBL_INDEX, R0 ; 0445
54 50 04 AE C1 00086 ADDL3 CNTLC_TBL_PTR, R0, ENTRY_PTR ;
08 AE 64 9A 0008B MOVZBL (ENTRY_PTR), VALID_ALPHA_UPPER ; 0446
OC AE 08 AE 20 C1 0008F ADDL3 #32, VALID_ALPHA_UPPER, VALID_ALPHA_LOWER ; 0447
50 5A D4 00099 CLRL R10 ;
11 AE 00 08 AE 01 2D 0009B CMPCS #1, VALID_ALPHA_UPPER, #0, R0, - ;
02 12 000A1 OPERINPUT_BUFFER+1 ;
5A D6 000A3 BNEQ 3$ ;
50 10 AE 9A 000A5 INCL R10 ;
59 D4 000A7 3$: MOVZBL OPERINPUT_BUFFER, R0 ; 0450
50 5A D4 000AB CLRL R9 ;
11 AE 00 0C AE 01 2D 000AD CMPCS #1, VALID_ALPHA_LOWER, #0, R0, - ;
02 12 000B3 OPERINPUT_BUFFER+1 ;
59 D6 000B5 BNEQ 4$ ;
58 D6 000B7 INCL R9 ;
55 D6 000B9 4$: BISL3 R10, R9, VALID_STATUS ;
6E 55 D1 000BD 5$: INCL CNTLC_TBL_INDEX ; 0442
03 18 000BF CMPL CNTLC_TBL_INDEX, CNTLC_TBL_ENTRIES ;
BB 58 E9 000C4 BLBC VALID_STATUS, 2$ ; 0443
40 58 E8 000C7 6$: BLBS VALID_STATUS, 8$ ; 0454
51 10 AE 9A 000CA MOVZBL OPERINPUT_BUFFER, R1 ; 0462
50 00000000' EF 9A 000CE MOVZBL T_PROMPT_DEFAULT, R0 ; 0463
50 00 11 AE 51 2D 000D5 CMPCS R1, OPERINPUT_BUFFER+1, #0, R0, - ;
00000000' EF 000DB T_PROMPT_DEFAULT+1 ;
22 13 000E0 BEQL 7$ ;
00000000G EF 9F 000E2 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0465
01 DD 000E8 PUSHL #1 ;
1A DD 000EA PUSHL #26 ;
00000000G FF 03 FB 000EC CALLS #3, aCRD$PRINT ;
00000000G EF 9F 000F3 PUSHAB MEN$GT_INVOPERINPUT ;
01 DD 000F9 PUSHL #1 ;
1A DD 000FB PUSHL #26 ;
00000000G FF 03 FB 000FD CALLS #3, aCRD$PRINT ;
03 58 E8 00104 7$: BLBS VALID_STATUS, 8$ ; 0467
FF11 31 00107 BRW 1$ ;
00000000G EF 94 0010A 8$: CLRB CRD$GB_USER_PROMPT_OKAY ; 0469
0000FE01 9F 01 05 56 F0 00110 INSV PROMPT, #5, #1, a#^X0000FE01 ; 0470
0000FE01 9F 01 04 57 F0 00119 INSV OPER, #4, #1, a#^X0000FE01 ; 0471
02 01 01 A4 8F 00122 CASEB 1(ENTRY_PTR), #1, #2 ; 0477
0052 0012 0006 00127 9$: .WORD 10$-9$,- ;
11$-9$,- ;
12$ 9$ ;

```

ZZ-ENSAB-2.0 Control C Menu Handler Routine L 16
 MENCNTLC CRD MENU - Control C Handler 19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746 Fiche 6 Frame L16
 01-00 Control C Menu Handler Routine 3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1 Page 26 (17)

```

    0C DD 0012D 10$:  PUSHL  #12          ; 0485
00000000G EF      01 FB 0012F  CALLS  #1, CRD$STOP          ;
    0086 31 00136  BRW      13$          ;
00000000G EF 9F 00139 11$:  PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0496
    01 DD 0013F  PUSHL  #1          ;
    1A DD 00141  PUSHL  #26          ;
00000000G FF      03 FB 00143  CALLS  #3, aCRD$PRINT        ;
00000000G EF 9F 0014A  PUSHAB MEN$GT_CNTLC_CONTINUING      ;
    01 DD 00150  PUSHL  #1          ;
    1A DD 00152  PUSHL  #26          ;
00000000G FF      03 FB 00154  CALLS  #3, aCRD$PRINT        ;
    51 FEA1 CF 9E 0015B  MOVAB  MEN$CNTLC_MENU, R1          ; 0497
    50 FE9C CF 9E 00160  MOVAB  MEN$CNTLC_MENU, R0          ;
00000000G EF 16 00165  JSB     CRD$SET_CTRL_C_HANDLERS      ;
00000000G EF 16 0016B  JSB     CRD$CLEAR_CTRL_C_FLAG        ; 0498
00000000G EF 16 00171  JSB     CRD$ENABLE_CTRL_C            ; 0499
    46 11 00177  BRB      13$          ; 0501
    51 FE83 CF 9E 00179 12$:  MOVAB  MEN$CNTLC_MENU, R1      ; 0518
    50 FE7E CF 9E 0017E  MOVAB  MEN$CNTLC_MENU, R0          ;
00000000G EF 16 00183  JSB     CRD$SET_CTRL_C_HANDLERS      ;
00000000G EF 16 00189  JSB     CRD$CLEAR_CTRL_C_FLAG        ; 0519
00000000G EF 94 0018F  CLRB     CRD$GB_CURRENT_STATE_TABLE  ; 0521
00000000G EF      0F D0 00195  MOVL  #15, CRD$GL_MM_CURRENT_STATE ; 0524
00000000G EF      03 D0 0019C  MOVL  #3, CRD$GL_TQ_CURRENT_STATE ; 0527
00000000G EF      03 D0 001A3  MOVL  #3, CRD$GL_HS_CURRENT_STATE ; 0530
00000000G EF 16 001AA  JSB     CRD$ENABLE_CTRL_C            ; 0533
    01 DD 001B0  PUSHL  #1          ; 0535
00000000G EF      01 FB 001B2  CALLS  #1, CRD$SCREEN_PAUSE    ;
00000000G FF 16 001B9  JSB     aCRD$GA_BEGIN                ; 0538
    50      01 D0 001BF 13$:  MOVL  #1, R0                    ; 0545
    04 001C2  RET                                ; 0546
  
```

; Routine Size: 451 bytes, Routine Base: CODE + 011A

ZZ-ENSAB-2.0 Control C Menu Handler Routine
 MENCNTLC CRD MENU - Control C Handler
 01-00 Control C Menu Handler Routine

B 1

19-Sep-1985

Fiche 7

Frame B1

Sequence 1237

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[DS.CRD.V020]MENCNTLC.B32;1

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; 0547 1 END
 ; 0548 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
DATA	11	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	35	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	733	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced ...
\$ASCIC	Macro	Lib02 342	
\$CRD_LITERALS	Macro	Lib03 83	
\$CRD_MESSAGE	Macro	Lib03 371	396 404 465 496
\$CRD_PRINT	Unbound	371	401 404 465 496
\$DS_ASKSTR	Macro	Lib03 371	401 404 465 496
\$DS_BREAK	KeyWMacr	Lib02 437	
\$DS_DSADEF	Macro	Lib02 437	
\$DS_TTYPEDEF	Macro	Lib02 82	
\$EQUYST	Macro	Lib02 371	401 404 465 496
\$ER	Comptime	88	84 85 371 401 404 465 496
\$MEN_ASKSTR	KeyWMacr	Lib03 435	
\$MEN_CNTLCTBL_ENTRY_ATTR	Macro	Lib03 322	
\$MEN_CNTLCTBL_ENTRY_FLD	Fieldset	Lib03 107	207 322 331 365
\$MEN_LITERALS	Macro	Lib03 84	
\$MODULE	Bind	88	
\$SCREEN_LITERALS	Macro	Lib03 85	
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	83	
AUTOSK_EXIT_CONTROL_C	Literal	83	
AUTOSK_EXIT_DUMMY_2	Literal	83	
AUTOSK_EXIT_DUMMY_3	Literal	83	
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	83	
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	83	
AUTOSK_EXIT_INTERNAL_ERROR	Literal	83	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	83	
AUTOSK_EXIT_LAST_REASON	Literal	83	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	83	
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	83	
AUTOSK_EXIT_NOERRORS_PREP	Literal	83	
CNTLCTBL\$B_ENTRY_ALPHA	Field	Lib03 393a	445a 446.
CNTLCTBL\$B_ENTRY_CNTLSEL	Field	Lib03 477.	
CNTLCTBL\$L_ENTRY_TEXT	Field	Lib03 181a	286a 394.
CNTLC_INITTBL_INIT	Own	157 157=	172. 186=

ZZ-ENSAB-2.0 Control C Menu Handler Routine
MENCNTLC CRD MENU - Control C Handler
01-00 Control C Menu Handler Routine

19-Sep-1985 17:14:23 VAX-11 Bliss-32 V4.1-746
3-Jan-1985 17:02:33 [DS.CRD.V020]MENCNTLC.B32;1

C 1

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Sequence 1238

Symbol	Type	Defined	Referenced	...
CNTLC_TBL_ENTRIES	Local	329	426a	442.
Bind		361 381=	386=	391.
CNTLC_TBL_INDEX	Register	323	440=	442= 442. 445.
Register		355 389=	391=	391. 393. 394.
CNTLC_TBL_INIT	Own	261	261=	276. 291=
CNTLC_TBL_PTR	Local	330	426a	445aa
Bind		360 364m	380=	385= 393aa 394a.
CONTROL_C_TABLE_ENTRIES	RoutForm	352	361.	
CONTROL_C_TABLE_PTR	RoutForm	352	360.	
CRD\$AL_CRD_DISPATCH_VECTORS	External Lib03		183a	288a
CRD\$CLEAR_CTRL_C_FLAG	ExtRout Lib03		416c	498c 519c
CRD\$CLEAR_CTRL_C_HANDLERS	ExtRout Lib03		415c	
CRD\$DISABLE_CTRL_C	ExtRout Lib03		414c	
CRD\$ENABLE_CTRL_C	ExtRout Lib03		499c	533c
CRD\$GA_BEGIN	External Lib03		538ac	
CRD\$GB_CURRENT_STATE_TABLE	External Lib03		521=	
CRD\$GB_USER_PROMPT_OKAY	External Lib03		431=	469-
CRD\$GL_HS_CURRENT_STATE	External Lib03		530=	
CRD\$GL_MM_CURRENT_STATE	External Lib03		524=	
CRD\$GL_TQ_CURRENT_STATE	External Lib03		527=	
CRD\$GT_NEW_LINE_MESSAGE	External Lib03		371a	401a 404a 465a 496a
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	Unbound		371	401 404 465 496
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	Unbound		371	401 404 465 496
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	83		
CRD\$K_ACTION_RANGE_ERROR	Literal	83		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	83		
CRD\$K_ADVANCE_GENERAL_COM	Literal	83		
CRD\$K_ADVANCE_STATE	Literal	83		
CRD\$K_ALLOCATION_ERROR	Literal	83		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	83		
CRD\$K_AUTOSIZER_ERROR	Literal	83		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	83		
CRD\$K_BAD_ACTION_NUMBER	Literal	83		
CRD\$K_BAD_TYPECODE_ERROR	Literal	83		
CRD\$K_BASE_SYSTEM_IDC	Literal	83		
CRD\$K_BASE_SYSTEM_LESI	Literal	83		
CRD\$K_BASE_SYSTEM_NULL	Literal	83		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	83		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	83		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	83		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	83		
CRD\$K_CRD_INITIALIZATION	Literal	83		
CRD\$K_CREATE_HST	Literal	83		
CRD\$K_DATA_LENGTH_ERROR	Literal	83		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	83		
CRD\$K_DDB_BLINK	Literal	83		
CRD\$K_DDB_FLINK	Literal	83		
CRD\$K_DDB_LAST_ENTRY	Literal	83		
CRD\$K_DDB_MEMORY_SIZE	Literal	83		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	83		
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	83		
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	83		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	83		

Symbol	Type	Defined	Referenced ...
CRD\$K_DDB_PTABLE_ENTRY	Literal	83	
CRD\$K_DDB_STATUS	Literal	83	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	83	
CRD\$K_DEVICE_NAME	Literal	83	
CRD\$K_DIAGNOSTIC_ERROR	Literal	83	
CRD\$K_DIAGNOSTIC_NAME	Literal	83	
CRD\$K_DONE_GENERAL_COMS	Literal	83	
CRD\$K_DO_NOTHING	Literal	83	
CRD\$K_DUMMY_10	Literal	83	
CRD\$K_DUMMY_11	Literal	83	
CRD\$K_DUMMY_12	Literal	83	
CRD\$K_DUMMY_13	Literal	83	
CRD\$K_DUMMY_3	Literal	83	
CRD\$K_DUMMY_4	Literal	83	
CRD\$K_DUMMY_5	Literal	83	
CRD\$K_DUMMY_6	Literal	83	
CRD\$K_DUMMY_7	Literal	83	
CRD\$K_DUMMY_8	Literal	83	
CRD\$K_DUMMY_9	Literal	83	
CRD\$K_EXIT_CRD	Literal	83	
CRD\$K_HOOK_POINT	Literal	83	
CRD\$K_HS_INTERNAL_ERROR	Literal	83	
CRD\$K_IDC_EVDLB	Literal	83	
CRD\$K_IDC_EVDLC	Literal	83	
CRD\$K_IDC_EVDLD	Literal	83	
CRD\$K_IDC_EVRAD_0	Literal	83	
CRD\$K_IDC_EVRAD_1	Literal	83	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	83	
CRD\$K_INTERNAL_ERROR	Literal	83	
CRD\$K_LAST_ACTION_ROUTINE	Literal	83	
CRD\$K_LAST_ENTRY	Literal	83	
CRD\$K_LAST_FUNCTION	Literal	83	
CRD\$K_LAST_HOOK_POINT	Literal	83	
CRD\$K_LAST_INTERNAL_ERROR	Literal	83	
CRD\$K_LAST_TYPE	Literal	83	
CRD\$K_LESI_ENWCA	Literal	83	
CRD\$K_LESI_EVRMB_0	Literal	83	
CRD\$K_LESI_EVRMB_1	Literal	83	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	83	
CRD\$K_LEVEL_4_PASSED	Literal	83	
CRD\$K_LOAD_AUTOSIZER	Literal	83	
CRD\$K_LOAD_ERROR	Literal	83	
CRD\$K_LOAD_GENERAL_COM	Literal	83	
CRD\$K_LOAD_LOAD_COM	Literal	83	
CRD\$K_LOAD_SELECT_COM	Literal	83	
CRD\$K_LOAD_SET_EVENT_COM	Literal	83	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	83	
CRD\$K_LOAD_START_COM	Literal	83	
CRD\$K_LOAD_SUP_FILE	Literal	83	
CRD\$K_MM_INTERNAL_ERROR	Literal	83	
CRD\$K_NEW_LINE	Literal	83	
CRD\$K_PREPARATION_ERROR	Literal	83	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	83	

Symbol	Type	Defined	Referenced ...
CRD\$K_RUNTIME	Literal	83	
CRD\$K_SAME_LINE	Literal	83	
CRD\$K_SET_EVENT_ARGS	Literal	83	
CRD\$K_SET_FLAGS_ARGS	Literal	83	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	83	
CRD\$K_START	Literal	83	
CRD\$K_START_AUTOSIZER	Literal	83	
CRD\$K_START_ERROR	Literal	83	
CRD\$K_START_QUALIFIERS	Literal	83	
CRD\$K_STAR_LINE	Literal	83	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	83	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	83	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	83	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	83	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	83	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	83	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	83	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	83	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	83	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	83	
CRD\$K_STATE_DUMMY_1	Literal	83	
CRD\$K_STATE_DUMMY_10	Literal	83	
CRD\$K_STATE_DUMMY_12	Literal	83	
CRD\$K_STATE_DUMMY_13	Literal	83	
CRD\$K_STATE_DUMMY_2	Literal	83	
CRD\$K_STATE_DUMMY_3	Literal	83	
CRD\$K_STATE_DUMMY_4	Literal	83	
CRD\$K_STATE_DUMMY_6	Literal	83	
CRD\$K_STATE_DUMMY_7	Literal	83	
CRD\$K_STATE_DUMMY_8	Literal	83	
CRD\$K_STATE_EXIT_CRD	Literal	83	
CRD\$K_STATE_INTERNAL_ERROR	Literal	83	
CRD\$K_STATE_LAST_STATE	Literal	83	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	83	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	83	
CRD\$K_STATE_LOAD_ERROR	Literal	83	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	83	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	83	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	83	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	83	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	83	
CRD\$K_STATE_LOAD_START_COM	Literal	83	
CRD\$K_STATE_PREPARATION_ERROR	Literal	83	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	83	
CRD\$K_STATE_START	Literal	83	
CRD\$K_STATE_START_AUTOSIZER	Literal	83	
CRD\$K_STATE_START_ERROR	Literal	83	
CRD\$K_SUCCESS	Literal	Lib03 188	293 501 540 545
CRD\$K_TEST_START_TEXT	Literal	83	
CRD\$K_TQ_INTERNAL_ERROR	Literal	83	
CRD\$K_TYPECODE	Literal	83	
CRD\$K_UDA_0_EVDLB	Literal	83	
CRD\$K_UDA_0_EVDLC	Literal	83	

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MENCNTLC CRD MENU - Control C Handler

01-00 Control C Menu Handler Routine

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Symbol	Type	Defined	Referenced ...
CRD\$K_UA_0_EVDLD	Literal	83	
CRD\$K_UA_0_EVRLA_0	Literal	83	
CRD\$K_UA_0_LAST_DIAGNOSTIC	Literal	83	
CRD\$K_UA_1_EVDLB	Literal	83	
CRD\$K_UA_1_EVDLC	Literal	83	
CRD\$K_UA_1_EVDLD	Literal	83	
CRD\$K_UA_1_EVRLA_0	Literal	83	
CRD\$K_UA_1_EVRLA_1	Literal	83	
CRD\$K_UA_1_LAST_DIAGNOSTIC	Literal	83	
CRD\$K_UA_2_EVDLB	Literal	83	
CRD\$K_UA_2_EVDLC	Literal	83	
CRD\$K_UA_2_EVDLD	Literal	83	
CRD\$K_UA_2_EVRLA_0	Literal	83	
CRD\$K_UA_2_LAST_DIAGNOSTIC	Literal	83	
CRD\$K_UA_3_EVDLB	Literal	83	
CRD\$K_UA_3_EVDLC	Literal	83	
CRD\$K_UA_3_EVDLD	Literal	83	
CRD\$K_UA_3_EVRLA_0	Literal	83	
CRD\$K_UA_3_EVRLA_1	Literal	83	
CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	83	
CRD\$PRINT	External Lib03	371ac	401ac 404ac 465ac 496ac
CRD\$SCREEN_PAUSE	ExtRout Lib03	535c	
CRD\$SET_CTRL_C_HANDLERS	ExtRout Lib03	497c	518c
CRD\$STOP	ExtRout Lib03	485c	
DS\$ASKSTR	ExtRout	437	437c
DS\$BREAK	ExtRout	437	437c 437e
DS\$K_PRINTB	Literal	371	
	Literal	371	
	Literal	401	
	Literal	401	
	Literal	404	
	Literal	404	
	Literal	465	
	Literal	465	
	Literal	496	
	Literal	496	
DS\$K_PRINTF	Literal	371	371
	Literal	371	371
	Literal	401	401
	Literal	401	401
	Literal	404	404
	Literal	404	404
	Literal	465	465
	Literal	465	465
	Literal	496	496
	Literal	496	496
DS\$K_PRINTI	Literal	371	
	Literal	371	
	Literal	401	
	Literal	401	
	Literal	404	
	Literal	404	
	Literal	465	

Symbol	Type	Defined	Referenced	...
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	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_PRINTX	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ABORT_PROGRAM	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ABORT_TEST	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_COMMAND_ERR	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_COMMAND_OUT	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		

Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_CRD_AUTOTEST	Literal	371	371	
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Literal	371	371
Literal	401	401
Literal	401	401
Literal	404	404
Literal	404	404
Literal	465	465
Literal	465	465
Literal	496	496
Literal	496	496

DS\$K_TYPE_DS_PROMPT	Literal	371	
----------------------	---------	-----	--

Literal	371	
Literal	401	
Literal	401	
Literal	404	
Literal	404	
Literal	465	
Literal	465	
Literal	496	
Literal	496	

DS\$K_TYPE_DS_START	Literal	371	
---------------------	---------	-----	--

Literal	371	
Literal	401	
Literal	401	
Literal	404	
Literal	404	
Literal	465	
Literal	465	
Literal	496	
Literal	496	

DS\$K_TYPE_ERRDEV	Literal	371	
-------------------	---------	-----	--

Literal	371	
Literal	401	
Literal	401	
Literal	404	
Literal	404	
Literal	465	
Literal	465	
Literal	496	
Literal	496	

DS\$K_TYPE_ERRHARD	Literal	371	
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Literal	371	
Literal	401	
Literal	401	
Literal	404	
Literal	404	
Literal	465	
Literal	465	
Literal	496	
Literal	496	

DS\$K_TYPE_ERROR_BODY	Literal	371	
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Literal	371	
Literal	401	

Symbol	Type	Defined	Referenced	...
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	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERROR_END	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERRPREP	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERRSOFT	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERRSUP	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERRSYS	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		

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Symbol Type Defined Referenced ...

	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_ERR_HALT	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_EXCEPTION	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_FIRST_PASS	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_GENERAL	Literal	371		
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		

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Symbol Type Defined Referenced ...

```

  Literal 496
DS$K_TYPE_GENERAL_ERROR Literal 371
  Literal 371
  Literal 401
  Literal 401
  Literal 404
  Literal 404
  Literal 465
  Literal 465
  Literal 496
  Literal 496
DS$K_TYPE_NO_TESTS Literal 371
  Literal 371
  Literal 401
  Literal 401
  Literal 404
  Literal 404
  Literal 465
  Literal 465
  Literal 496
  Literal 496
DS$K_TYPE_PARAM_ERROR Literal 371
  Literal 371
  Literal 401
  Literal 401
  Literal 404
  Literal 404
  Literal 465
  Literal 465
  Literal 496
  Literal 496
DS$K_TYPE_PROGRAM_END Literal 371
  Literal 371
  Literal 401
  Literal 401
  Literal 404
  Literal 404
  Literal 465
  Literal 465
  Literal 496
  Literal 496
DS$K_TYPE_PROGRAM_INFO Literal 371
  Literal 371
  Literal 401
  Literal 401
  Literal 404
  Literal 404
  Literal 465
  Literal 465
  Literal 496
  Literal 496
DS$K_TYPE_PROGRAM_START Literal 371
  Literal 371
```

Literal	401		
Literal	401		
Literal	404		
Literal	404		
Literal	465		
Literal	465		
Literal	496		
Literal	496		
DS\$K_TYPE_QIO_INVADP	Literal	371	
Literal	371		
Literal	401		
Literal	401		
Literal	404		
Literal	404		
Literal	465		
Literal	465		
Literal	496		
Literal	496		
DS\$K_TYPE_QIO_NODRIVER	Literal	371	
Literal	371		
Literal	401		
Literal	401		
Literal	404		
Literal	404		
Literal	465		
Literal	465		
Literal	496		
Literal	496		
DS\$K_TYPE_QIO_WRONGVER	Literal	371	
Literal	371		
Literal	401		
Literal	401		
Literal	404		
Literal	404		
Literal	465		
Literal	465		
Literal	496		
Literal	496		
DS\$K_TYPE_SCRIPT_ECHO	Literal	371	
Literal	371		
Literal	401		
Literal	401		
Literal	404		
Literal	404		
Literal	465		
Literal	465		
Literal	496		
Literal	496		
DS\$K_TYPE_SCRIPT_PNF	Literal	371	
Literal	371		
Literal	401		
Literal	401		
Literal	404		

[illegible]

	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_SCRIPT_PROMPT	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_SCRIPT_SKIP	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_SEQUENCE_ERROR	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_START_ERR	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		
	Literal	496		
	Literal	496		
DS\$K_TYPE_START_LIST	Literal		371	
	Literal	371		
	Literal	401		
	Literal	401		
	Literal	404		
	Literal	404		
	Literal	465		
	Literal	465		

Symbol	Type	Defined	Referenced	...
Literal	496			
Literal	496			
DS\$K_TYPE_SUMMARY	Literal	371		
Literal	371			
Literal	401			
Literal	401			
Literal	404			
Literal	404			
Literal	465			
Literal	465			
Literal	496			
Literal	496			
DS\$K_TYPE_USER_PROMPT	Literal	371		
Literal	371			
Literal	401			
Literal	401			
Literal	404			
Literal	404			
Literal	465			
Literal	465			
Literal	496			
Literal	496			
DSA\$AL_APTMAIL	Bind	82	82	
DSA\$GL_APTCOM	Bind	82		
DSA\$GL_DEVLEN	Bind	82		
DSA\$GL_DEVNAM	Bind	82		
DSA\$GL_ERRNO	Bind	82		
DSA\$GL_EVENT	Bind	82		
DSA\$GL_FLAGS	Bind	82	428	429 432 433 470 471
DSA\$GL_MSGPTR	Bind	82		
DSA\$GL_MSGTYP	Bind	82		
DSA\$GL_PASSES	Bind	82		
DSA\$GL_PASSNO	Bind	82		
DSA\$GL_SECTNO	Bind	82		
DSA\$GL_SID	Bind	82		
DSA\$GL_SUBTNO	Bind	82		
DSA\$GL_TESTNO	Bind	82		
DSA\$GL_UNITS	Bind	82		
DSA\$V_OPER	Macro	Lib02 429	433 471	
DSA\$V_PROMPT	Macro	Lib02 428	432 470	
ENTRY_PTR	Register	322 445=	446a. 477a.	
FALSE	Literal	Lib03 157	261 422 469	
GET1ST	Macro	Lib04 83	84 85 371 401 404	
GET2ND	Unbound	83	84 85 371 401 404	
HSS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		83	
HSS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		83	
HSS\$K_ACTION_ADVANCE_STATE	Literal		83	
HSS\$K_ACTION_CHANGE_TABLE	Literal		83	
HSS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		83	
HSS\$K_ACTION_DONE_GENERAL_COMS	Literal		83	
HSS\$K_ACTION_DO_NOTHING	Literal		83	
HSS\$K_ACTION_DUMMY_3	Literal		83	
HSS\$K_ACTION_DUMMY_4	Literal		83	

Symbol	Type	Defined	Referenced ...
HSSK_ACTION_DUMMY_5	Literal	83	
HSSK_ACTION_DUMMY_6	Literal	83	
HSSK_ACTION_INIT_HS	Literal	83	
HSSK_ACTION_INTERNAL_ERROR	Literal	83	
HSSK_ACTION_LAST_ACTION	Literal	83	
HSSK_ACTION_LOAD_ERROR	Literal	83	
HSSK_ACTION_LOAD_GENERAL_COM	Literal	83	
HSSK_ACTION_LOAD_LOAD_COM	Literal	83	
HSSK_ACTION_LOAD_SELECT_COM	Literal	83	
HSSK_ACTION_LOAD_SET_EVENT_COM	Literal	83	
HSSK_ACTION_LOAD_SET_FLAGS_COM	Literal	83	
HSSK_ACTION_LOAD_START_COM	Literal	83	
HSSK_ACTION_PREPARATION_ERROR	Literal	83	
HSSK_ACTION_START_ERROR	Literal	83	
HSSK_STATE_ADVANCE_DIAGNOSTIC	Literal	83	
HSSK_STATE_ADVANCE_GENERAL_COM	Literal	83	
HSSK_STATE_CHANGE_TABLE	Literal	83	
HSSK_STATE_DIAGNOSTIC_ERROR	Literal	83	
HSSK_STATE_DIAGNOSTIC_RUNNING	Literal	83	
HSSK_STATE_DONE_GENERAL_COMS	Literal	83	
HSSK_STATE_DUMMY_1	Literal	83	
HSSK_STATE_DUMMY_2	Literal	83	
HSSK_STATE_DUMMY_3	Literal	83	
HSSK_STATE_DUMMY_4	Literal	83	
HSSK_STATE_DUMMY_6	Literal	83	
HSSK_STATE_INIT_HS	Literal	83	530
HSSK_STATE_INTERNAL_ERROR	Literal	83	
HSSK_STATE_LAST_STATE	Literal	83	
HSSK_STATE_LOAD_ERROR	Literal	83	
HSSK_STATE_LOAD_GENERAL_COM	Literal	83	
HSSK_STATE_LOAD_LOAD_COM	Literal	83	
HSSK_STATE_LOAD_SELECT_COM	Literal	83	
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	83	
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	83	
HSSK_STATE_LOAD_START_COM	Literal	83	
HSSK_STATE_PREPARATION_ERROR	Literal	83	
HSSK_STATE_START_ERROR	Literal	83	
INDEX	Register	154	178= 179= 179. 181.
Local		258	283= 284= 284. 286.
JSB_BEGIN	Linkage	Lib03	538
MEN\$CNTLCINIT_TBL_INIT	GlobRout	120	Lib03e 62f
MEN\$CNTLC_MENU	GlobRout	297	Lib03e 59f 497a 518a
MEN\$CNTLC_TBL_INIT	GlobRout	224	Lib03e 65f
MEN\$GA_CNTLC_INITTBL	Own	105	108= 181a 380a
MEN\$GA_CNTLC_TBL	Own	205	208= 286a 385a
MEN\$GB_FNCTST_INIT	External	Lib03	377.
MEN\$GK_CNTLC_INITTBL_ENTRIES	Literal	102	105 179 381
MEN\$GK_CNTLC_TBL_ENTRIES	Literal	202	205 284 386
MEN\$GK_TEST_QUEUE	Literal	84	
MEN\$GT_CNTLCM_CHOICE	External	Lib03	404a
MEN\$GT_CNTLC_CONTINUING	External	Lib03	496a
MEN\$GT_CNTLC_MENU_PROMPT	External	Lib03	437a
MEN\$GT_CNTLC_MENU_SELECTION	External	Lib03	401a

Symbol	Type	Defined	Referenced ...
MEN\$GT_CNTLC_MENU_TITLE	External Lib03	371a	
MEN\$GT_CNTLC_SEL_CONTINUE	External Lib03	115a	219a
MEN\$GT_CNTLC_SEL_EXIT	External Lib03	111a	211a
MEN\$GT_CNTLC_SEL_FTMENU	External Lib03	215a	
MEN\$GT_INVOPERINPUT	External Lib03	465a	
MEN\$K_CNTLC_TBL_ENTRY_SIZE	Literal Lib03	106	206 322 330 364
MEN\$K_CNTLC_SEL_CONTINUE	Literal	84 114	218 487
MEN\$K_CNTLC_SEL_EXIT	Literal	84 110	210 479
MEN\$K_CNTLC_SEL_FTMENU	Literal	84 214	504
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal	84 477	
MEN\$K_DEVTSTPREP_1	Literal	84	
MEN\$K_DEVTSTPREP_2	Literal	84	
MEN\$K_DEVTSTPREP_3	Literal	84	
MEN\$K_DEVTSTPREP_4	Literal	84	
MEN\$K_DEVTSTPREP_5	Literal	84	
MEN\$K_DEVTSTPREP_6	Literal	84	
MEN\$K_DEVTSTPREP_7	Literal	84	
MEN\$K_DEVTSTPREP_NULL	Literal	84	
MEN\$K_FTMRET_EXIT	Literal	84	
MEN\$K_FTMRET_FAILURE	Literal	84	
MEN\$K_FTMRET_MENU	Literal	84	
MEN\$K_FTMRET_TEST	Literal	84	
MEN\$K_FTMSEL_EXIT	Literal	84	
MEN\$K_FTMSEL_FNCTST_ALL	Literal	84	
MEN\$K_FTMSEL_LAST_ENTRY	Literal	84	
MEN\$K_FTMSEL_PREP	Literal	84	
MEN\$K_FTMSEL_SYSTEM_HDWR	Literal	84	
MEN\$K_FTMSEL_TEST	Literal	84	
MEN\$K_HS_STATE_TABLE	Literal	83	
MEN\$K_MM_STATE_TABLE	Literal	83 521	
MEN\$K_PREP_ERROR_TEXT_LEN	Literal	84	
MEN\$K_SELDEV_NUMB_START	Literal	84	
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal	84	
MEN\$K_TQ_STATE_TABLE	Literal	83	
MEN\$K_TSTCLA_ALL	Literal	84	
MEN\$K_TSTCLA_CARD	Literal	84	
MEN\$K_TSTCLA_COMM	Literal	84	
MEN\$K_TSTCLA_CPU	Literal	84	
MEN\$K_TSTCLA_DISK	Literal	84	
MEN\$K_TSTCLA_IO_ADAPTOR	Literal	84	
MEN\$K_TSTCLA_LAST_ENTRY	Literal	84	
MEN\$K_TSTCLA_MEMORY	Literal	84	
MEN\$K_TSTCLA_NULL	Literal	84	
MEN\$K_TSTCLA_PRINTER	Literal	84	
MEN\$K_TSTCLA_REAL	Literal	84	
MEN\$K_TSTCLA_TAPE	Literal	84	
MEN\$K_TSTCLA_TERM	Literal	84	
MEN\$K_TSTCTG_CPU	Literal	84	
MEN\$K_TSTCTG_IO_ADAPTOR	Literal	84	
MEN\$K_TSTCTG_IO_CONTROLLER	Literal	84	
MEN\$K_TSTCTG_IO_UNIT	Literal	84	
MEN\$K_TSTCTG_MEMORY	Literal	84	
MEN\$K_TSTCTG_NULL	Literal	84	

Symbol	Type	Defined	Referenced ...
MEN\$K_TSTTXT_DEVNAM_SZ	Literal	84	
MEN\$K_TSTTXT_TSTCLA_SZ	Literal	84	
MEN\$K_TSTTXT_UTNAM_SZ	Literal	84	
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	83	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	83	
MEN\$K_EXIT_LAST_REASON	Literal	83	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	83	485
MEN\$K_EXIT_OPERATOR_STOP	Literal	83	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	83	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	83	
MM\$K_ACTION_ADVANCE_STATE	Literal	83	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	83	
MM\$K_ACTION_BUILD_DDBS	Literal	83	
MM\$K_ACTION_BUILD_HSTS	Literal	83	
MM\$K_ACTION_CHANGE_TABLE	Literal	83	
MM\$K_ACTION_DONE_INITS	Literal	83	
MM\$K_ACTION_DO_NOTHING	Literal	83	
MM\$K_ACTION_DUMMY_3	Literal	83	
MM\$K_ACTION_DUMMY_4	Literal	83	
MM\$K_ACTION_DUMMY_5	Literal	83	
MM\$K_ACTION_DUMMY_6	Literal	83	
MM\$K_ACTION_DUMMY_7	Literal	83	
MM\$K_ACTION_DUMMY_8	Literal	83	
MM\$K_ACTION_INTERNAL_ERROR	Literal	83	
MM\$K_ACTION_LAST_ACTION	Literal	83	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	83	
MM\$K_ACTION_MENU_PROMPT	Literal	83	
MM\$K_ACTION_PRINT_MENU	Literal	83	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	83	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	83	
MM\$K_ACTION_START_AUTOSIZER	Literal	83	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	83	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	83	
MM\$K_STATE_BUILD_DDBS	Literal	83	
MM\$K_STATE_BUILD_HSTS	Literal	83	
MM\$K_STATE_CHANGE_TABLE	Literal	83	
MM\$K_STATE_DONE_INITS	Literal	83	
MM\$K_STATE_DUMMY_1	Literal	83	
MM\$K_STATE_DUMMY_2	Literal	83	
MM\$K_STATE_DUMMY_3	Literal	83	
MM\$K_STATE_DUMMY_5	Literal	83	
MM\$K_STATE_DUMMY_7	Literal	83	
MM\$K_STATE_DUMMY_8	Literal	83	
MM\$K_STATE_INTERNAL_ERROR	Literal	83	
MM\$K_STATE_LAST_STATE	Literal	83	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	83	
MM\$K_STATE_MENU_PROMPT	Literal	83	
MM\$K_STATE_PRINT_MENU	Literal	83	524
MM\$K_STATE_PRINT_MENU_HEADING	Literal	83	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	83	
MM\$K_STATE_START	Literal	83	
MM\$K_STATE_START_AUTOSIZER	Literal	83	
MODNAM	Macro	L b01	88

Symbol	Type	Defined	Referenced	...
NUL2ND	Macro	Lib04 83	84 85 371 401	404 465 496
ON	Literal	Lib03 432 433		
OPER	Register	325 429= 471.		
OPERINPUT_BUFFER	Local	339 437a	449. 450. 462.	
OPERINPUT_BUFFER_SZ	Literal	336 339		
PROMPT	Register	324 428= 470.		
SCREEN\$K_CLEAR_SCREEN	Literal	85 535		
SCREEN\$K_COUNT_LINE	Literal	85		
SCREEN\$K_PRESS_RETURN	Literal	85		
SCREEN\$K_PRESS_RETURN_MM	Literal	85		
SCREEN\$K_PRESS_RETURN_TM	Literal	85		
SCREEN\$K_TM_MSG	Literal	85		
SELECT_ALPHA_PTR	Register	356 393= 401.		
SELECT_TEXT_PTR	Register	357 394= 401.		
STATUS	Local	437 437= 437.		
TEXT_PTR	Register	153 181= 183a= 183a.		
	Local	257 286= 288a= 288a.		
TQ\$K_ACTION_ADVANCE_STATE	Literal	83		
TQ\$K_ACTION_CHANGE_TABLE	Literal	83		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	83		
TQ\$K_ACTION_DO_NOTHING	Literal	83		
TQ\$K_ACTION_DUMMY_3	Literal	83		
TQ\$K_ACTION_DUMMY_4	Literal	83		
TQ\$K_ACTION_DUMMY_5	Literal	83		
TQ\$K_ACTION_GET_DDB	Literal	83		
TQ\$K_ACTION_INIT_TQ	Literal	83		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	83		
TQ\$K_ACTION_LAST_ACTION	Literal	83		
TQ\$K_STATE_CHANGE_TABLE	Literal	83		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	83		
TQ\$K_STATE_DUMMY_1	Literal	83		
TQ\$K_STATE_DUMMY_2	Literal	83		
TQ\$K_STATE_DUMMY_3	Literal	83		
TQ\$K_STATE_DUMMY_4	Literal	83		
TQ\$K_STATE_DUMMY_5	Literal	83		
TQ\$K_STATE_GET_DDB	Literal	83		
TQ\$K_STATE_INIT_TQ	Literal	83 527		
TQ\$K_STATE_INTERNAL_ERROR	Literal	83		
TQ\$K_STATE_LAST_STATE	Literal	83		
TRUE	Literal	Lib03 186 291 431		
TYPE CONTROL_C_MENU	Routine	352 426c		
T_PROMPT_DEFAULT	Bind	342 437a 463.		
VALID_ALPHA_LOWER	Local	333 447= 450.		
VALID_ALPHA_UPPER	Local	332 446= 447. 449.		
VALID_STATUS	Register	326 422= 443. 449= 454. 467.		

Line #	Event	File ...
1	...	...
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97	...	...
98	...	...
99	...	...
100	...	...

KEY TO REFERENCE TYPE FLAGS

; Library Statistics

COMMAND QUALIFIERS

```

; Lines/CPU-Min: 788
; Lexemes/CPU-Min: 66792

```

ZZ-ENSAB-2.0 Control C Menu Handler Routine
MENCNTLC CRD MENU - Control C Handler
01-00 Control C Menu Handler Routine

G 2

19-Sep-1985

Fiche 7

Frame G2

Sequence 1255

19-Sep-1985 17:14:23

VAX-11

Bliss-32

V4.1-746

Page 45

; Memory Used: 309 pages
; Compilation Complete

```
: 0001 0
: 0002 0 MODULE MENGOA (MAIN=MEN$Generate_Online_Attach) =
: 0003 0
: 0004 0 ! *****
: 0005 0 ! ++
: 0006 0 ! COPYRIGHT (c) 1985
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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: 0016 0 !
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: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 ! -
: 0024 0 ! *****
: 0025 0
```

```
; 0026 0
; 0027 1 BEGIN
; 0028 1
; 0029 1 !*****
; 0030 1 !+
; 0031 1 !   Module libraries
; 0032 1 !-
; 0033 1 !*****
; 0034 1
; 0035 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
; 0036 1 LIBRARY 'DISK$DS:[DS.EVSBB.DEF]EVSBB_DEF.L32';
; 0037 1
; 0038 1 !*****
; 0039 1 !+
; 0040 1 !   $LITERAL Macro: This macro encodes three pieces of information
; 0041 1 !   into a long word as follows:
; 0042 1 !
; 0043 1 !   .BYTE The VMS Class code for this device
; 0044 1 !   .BYTE The VMS Type code for this device
; 0045 1 !   .WORD The two character name of the VSM driver, note anything
; 0046 1 !   larger than two characters is truncated to two characters
; 0047 1 !
; 0048 1 !   The resultant names appear as Item_<device_name>. This literal is
; 0049 1 !   compared to a computed longword. A match will cause the device to
; 0050 1 !   be attached.
; 0051 1 !-
; 0052 1 !*****
; 0053 1
; M 0054 1 KEYWORDMACRO $LITERAL ( Name, Class, Type, Driver ) =
; M 0055 1   LITERAL
; M 0056 1   %NAME('Item ',Name) = Class*(Type)^8+(%ASCII%STRING(Driver))^16
; 0057 1 %;
```



```
: 0058 1
: 0059 1 .....
: 0060 1 !*
: 0061 1 ! $Attach Macro: This macro processes an FAO string creating an
: 0062 1 ! attach command. The command is then feed to VDS
: 0063 1 ! doing the actual attach.
: 0064 1 !-
: 0065 1 ! .....
: 0066 1
M 0067 1 MACRO $ATTACH ( CNTRL ) [ ] =
M 0068 1 BEGIN
M 0069 1 FAO_Input_Dsc[0,00,16,0] = xCHARCOUNT ( CNTRL );
M 0070 1 FAO_Input_Dsc[0,16,08,0] = DSC$K_DTYPE_T;
M 0071 1 FAO_Input_Dsc[0,24,08,0] = DSC$K_CLASS_S;
M 0072 1 FAO_Input_Dsc[1,00,32,0] = UPLIT (xASCII CNTRL);
M 0073 1
M 0074 1 Status = $FAO (
M 0075 1 FAO_Input_Dsc,
M 0076 1 FAO_Length,
M 0077 1 FAO_Output_Dsc
M 0078 1 xIF NOT xNULL(xREMAINING) xTHEN ,xREMAINING xFI
M 0079 1 );
M 0080 1 IF NOT (.Status) THEN RETURN 0;
M 0081 1
M 0082 1 CH$COPY ( .FAO_Length, CH$PTR(FAO_Buf), xC' ',
M 0083 1 .CLI_Buffer_Length, CH$PTR(.CLI_Buffer_Address)
M 0084 1 );
: 0085 1 ENDx;
```

```
; 0086 1 ! .....  
; 0087 1 ! *  
; 0088 1 ! Reasons for various things:  
; 0089 1 !  
; 0090 1 ! 01 The TS11/TU80/TS05 are seen as device type DT$_TS11 under VMS.  
; 0091 1 ! a nonunique situation.  
; 0092 1 !  
; 0093 1 ! 02 The DMF32A is missing DC$_ symbol and the driver, TX, is non-  
; 0094 1 ! unique.  
; 0095 1 !  
; 0096 1 ! 03 The DMF32P is missing the DC$_ symbol but was put in the DC$_LP  
; 0097 1 ! class as EVSBB_DRA always showed this up as LP class. It is  
; 0098 1 ! after all a parallel transfer type device like a Line Printer.  
; 0099 1 !  
; 0100 1 ! 04 The DMC11 is allows reported by VMS as DT$_DMC11 even when the  
; 0101 1 ! device is actually a DMR11. Therefore the device type is non -  
; 0102 1 ! unique.  
; 0103 1 ! .....  
; 0104 1 ! .....
```

```
0105 1
0106 1 *****
0107 1 |
0108 1 | This section contains literal definitions for the individual devices
0109 1 | that may be attached online. The definitions take the form of
0110 1 | ITEM_<device_name>. An example is ITEM_RP06.
0111 1 |
0112 1 | The user must add a new literal definitions. Don't forget to add
0113 1 | a corresponding attach string in the SELECTONE list.
0114 1 |
0115 1 *****
0116 1
0117 1 $LITERAL ( Name=RC25, Class=DC$_DISK, Type=DT$_RZ01, Driver=DA );
0118 1 $LITERAL ( Name=RCF25, Class=DC$_DISK, Type=DT$_RZF01, Driver=DA );
0119 1
0120 1 $LITERAL ( Name=RP04, Class=DC$_DISK, Type=DT$_RP04, Driver=DB );
0121 1 $LITERAL ( Name=RP05, Class=DC$_DISK, Type=DT$_RP05, Driver=DB );
0122 1 $LITERAL ( Name=RP06, Class=DC$_DISK, Type=DT$_RP06, Driver=DB );
0123 1
0124 1 $LITERAL ( Name=TU58, Class=DC$_DISK, Type=DT$_TU58, Driver=DD );
0125 1
0126 1 $LITERAL ( Name=RA60, Class=DC$_DISK, Type=DT$_RA60, Driver=DJ );
0127 1 $LITERAL ( Name=RA80, Class=DC$_DISK, Type=DT$_RA80, Driver=DJ );
0128 1
0129 1 $LITERAL ( Name=RL01, Class=DC$_DISK, Type=DT$_RL01, Driver=DL );
0130 1 $LITERAL ( Name=RL02, Class=DC$_DISK, Type=DT$_RL02, Driver=DL );
0131 1
0132 1 $LITERAL ( Name=RK06, Class=DC$_DISK, Type=DT$_RK06, Driver=DM );
0133 1 $LITERAL ( Name=RK07, Class=DC$_DISK, Type=DT$_RK07, Driver=DM );
0134 1
0135 1 $LITERAL ( Name=RM03, Class=DC$_DISK, Type=DT$_RM03, Driver=DR );
0136 1 $LITERAL ( Name=RM05, Class=DC$_DISK, Type=DT$_RM05, Driver=DR );
0137 1 $LITERAL ( Name=RM80, Class=DC$_DISK, Type=DT$_RM80, Driver=DR );
0138 1 $LITERAL ( Name=RP07, Class=DC$_DISK, Type=DT$_RP07, Driver=DR );
0139 1
0140 1 $LITERAL ( Name=RX50, Class=DC$_DISK, Type=DT$_RX50, Driver=DU );
0141 1 $LITERAL ( Name=RA81, Class=DC$_DISK, Type=DT$_RA81, Driver=DU );
0142 1
0143 1 $LITERAL ( Name=RX02, Class=DC$_DISK, Type=DT$_RX02, Driver=DY );
0144 1
0145 1 $LITERAL ( Name=DMF32P, Class=DC$_LP, Type=DT$_DMF32, Driver=LC ); !R03
0146 1
0147 1 $LITERAL ( Name=TU78, Class=DC$_TAPE, Type=DT$_TU78, Driver=MF );
0148 1
0149 1 !LITERAL ( Name=TS05, Class=DC$_TAPE, Type=DT$_TS11, Driver=MS ); !R01
0150 1 !LITERAL ( Name=TS11, Class=DC$_TAPE, Type=DT$_TS11, Driver=MS ); !R01
0151 1 !LITERAL ( Name=TU80, Class=DC$_TAPE, Type=DT$_TS11, Driver=MS ); !R01
0152 1
0153 1 $LITERAL ( Name=TE16, Class=DC$_TAPE, Type=DT$_TE16, Driver=MT );
0154 1 $LITERAL ( Name=TU45, Class=DC$_TAPE, Type=DT$_TU45, Driver=MT );
0155 1 $LITERAL ( Name=TU77, Class=DC$_TAPE, Type=DT$_TU77, Driver=MT );
0156 1
0157 1 $LITERAL ( Name=TK50, Class=DC$_TAPE, Type=DT$_TK50, Driver=MU );
0158 1 $LITERAL ( Name=TU81, Class=DC$_TAPE, Type=DT$_TU81, Driver=MU );
0159 1
```

ZZ-ENSAB-2.0 MINGOA
MINGOA 19-Sep-1985 17:15:49 VAX-11 Bliss-32 V4.1-746
8-Jul-1985 14:42:35 [DS.CRD.V020]MINGOA.B32;1 (5)

M 2
19-Sep-1985
Page 6

Fiche 7 Frame M2

Sequence 1261

```
; 0160 1 $LITERAL ( Name=DZ32, Class=DC$_TERM, Type=DT$_DZ32, Driver=TT );
; 0161 1
; 0162 1 !LITERAL ( Name=DHU11, Class=DC$_TERM, Type=DT$_DHU, Driver=TX ); !R02
; 0163 1 !LITERAL ( Name=DMF32A, Class=DC$_????, Type=DT$_DMF32, Driver=TX ); !R02
; 0164 1
; 0165 1 $LITERAL ( Name=VS100, Class=DC$_WORKSTATION, Type=DT$_VS100, Driver=VB );
; 0166 1 $LITERAL ( Name=VS125, Class=DC$_WORKSTATION, Type=DT$_VS125, Driver=VB );
; 0167 1 $LITERAL ( Name=VS300, Class=DC$_WORKSTATION, Type=DT$_VS300, Driver=VB );
; 0168 1
; 0169 1 $LITERAL ( Name=DR11W, Class=DC$_REALTIME, Type=DT$_DR11W, Driver=XA );
; 0170 1
; 0171 1 $LITERAL ( Name=UNA11, Class=DC$_SCOM, Type=DT$_UNA11, Driver=XE );
; 0172 1
; 0173 1 $LITERAL ( Name=DMF32S, Class=DC$_SCOM, Type=DT$_DMF32, Driver=XG );
; 0174 1
; 0175 1 !LITERAL ( Name=DMC11, Class=DC$_SCOM, Type=DT$_DMC11, Driver=XM ); !R04
; 0176 1 !LITERAL ( Name=DMR11, Class=DC$_SCOM, Type=DT$_DMR11, Driver=XM ); !R04
```

```
; 0177 1
; 0178 1 GLOBAL ROUTINE MEN$Generate_Online_Attach
; 0179 1 ( CLI_Buffer_Length, CLI_Buffer_Address) =
; 0180 1
; 0181 1 !*****
; 0182 1 !*
; 0183 1 ! Function:
; 0184 1 ! This routine will look at the global record to attach the device
; 0185 1 ! specified in the record. Devices are attached using default
; 0186 1 ! attach strings. Should no matching attach string be found, no
; 0187 1 ! action is taken and a zero is returned in R0.
; 0188 1 !
; 0189 1 ! Also be aware that a zero returned can also mean an internal
; 0190 1 ! failure of some sort. Routines that are called always return
; 0191 1 ! a status. Should the status be bad a zero is returned from this
; 0192 1 ! routine.
; 0193 1 !
; 0194 1 ! Input:
; 0195 1 ! CRD$GA_Rec_Buf - the EVSBB record address.
; 0196 1 ! The CLI buffer length and address values
; 0197 1 !
; 0198 1 ! Return status in R0:
; 0199 1 ! A zero indicates device not attached.
; 0200 1 ! A one indicates device attached.
; 0201 1 ! -
; 0202 1 !*****
; 0203 1
; 0204 2 BEGIN
; 0205 2
; 0206 2 LITERAL
; 0207 2     FAO_BUF_SIZE = 80;
; 0208 2
; 0209 2 EXTERNAL
; 0210 2     CRD$GA_Rec_Buf : ADDRESSING_MODE (LONG_RELATIVE);
; 0211 2 MAP
; 0212 2     CRD$GA_Rec_Buf : BLOCK [,BYTE];
; 0213 2
; 0214 2 OWN
; 0215 2     FAO_BUF : BLOCK [FAO_BUF_SIZE,BYTE],
; 0216 2     FAO_Input_Dsc : BLOCK [2,LONG],
; 0217 2     FAO_Length : WORD,
; 0218 2     FAO_Output_DSC : BLOCK [2,LONG],
; 0219 2     Item : LONG,
; 0220 2     Status : LONG,
; 0221 2     T1,T2 : LONG;
; 0222 2
```

```
; 0223 2
; 0224 2 ! Test that device is on this CPU as opposed to another CPU or HSC50.
; 0225 2
; 0226 2 IF (.CRD$GA_Rec_Buf[EVSBB$B_Whose] NEQ EVSBB$_Mine) THEN RETURN 0;
; 0227 2
; 0228 2 ! Set up the FAO output descriptor dynamically, can't be done at compile time
; 0229 2
; 0230 2 FAO_Output_Dsc[0,00,16,0] = FAO_Buf_Size;
; 0231 2 FAO_Output_Dsc[0,16,08,0] = DSC$K_DTYPE_T;
; 0232 2 FAO_Output_Dsc[0,24,08,0] = DSC$K_CLASS_S;
; 0233 2 FAO_Output_Dsc[1,00,32,0] = FAO_Buf;
; 0234 2
; 0235 2 ! Set up the comparsion longword from the input data
; 0236 2
; 0237 2 Item<00,08,0> = .CRD$GA_Rec_Buf[EVSBB$B_Class];
; 0238 2 Item<08,08,0> = .CRD$GA_Rec_Buf[EVSBB$B_Type];
; 0239 2 Item<16,16,0> = .(CRD$GA_Rec_Buf[EVSBB$T_NAME]+1);
; 0240 2
; 0241 2 ! Now do the appropriate thing for the device specified
; 0242 2
; 0243 2 SELECTONE .Item OF
; 0244 2     SET
; 0245 2 !*****
; 0246 2     [ Item_DR11W ] :
; 0247 2     . ATTACH DR11W HUB <name><unit> <csr> <vec> <br>
P 0248 2     $ATTACH ('ATTACH DR11W HUB !AC!UW 760000 300 05',
P 0249 2     CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
P 0250 2     .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0251 2     );
; 0252 2 !*****
; 0253 2     [ Item_DMC11 ] :
; 0254 2     . ATTACH DMC11 HUB <name><unit> <csr> <vec> <br>
; 0255 2     $ATTACH ('ATTACH DMC11 HUB !AC!UW 760000 300 05',
; 0256 2     CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; 0257 2     .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0258 2     );
; 0259 2
; 0260 2 !*****
; 0261 2     [ Item_DMR11 ] :
; 0262 2     . ATTACH DMR11 HUB <name><unit> <csr> <vec> <br>
; 0263 2     $ATTACH ('ATTACH DMR11 HUB !AC!UW 760000 300 05',
; 0264 2     CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; 0265 2     .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0266 2     );
; 0267 2
; 0268 2 !*****
; 0269 2     [ Item DMF32A ] :
; 0270 2
; 0271 2     . ATTACH DMF32A HUB <name> <csr> <vec> <br> -
; 0272 2     . <active lines> <baud rate> <loopback> <unibus init jumper>
; 0273 2     $ATTACH ('ATTACH DMF32A HUB !AC! 760000 300 05 377 9600 INTERNAL YES',
; 0274 2     CRD$GA_Rec_Buf[EVSBB$T_NAME] ! Device name
; 0275 2     );
; 0276 2
; 0277 2 !*****
```

```
; 0278 2 [ Item_DMF32P ] :  
; 0279 2  
; 0280 2 ! ATTACH DMF32P HUB <name> <csr> <vec> <br> <port device>  
; P 0281 2 $ATTACH ('ATTACH DMF32P HUB !AC 760000 300 05 OTHER',  
; P 0282 2 CRD$GA_Rec_Buf[EVSBB$T_NAME] ! Device name  
; 0283 2 );  
; 0284 2  
; 0285 2 ! *****  
; 0286 2 [ Item_DMF32S ] :  
; 0287 2  
; 0288 2 ! ATTACH DMF32S HUB <name><unit> <csr> <vec> <br> <external wrap>  
; P 0289 2 $ATTACH ('ATTACH DMF32S HUB !AC!UW 760000 300 05 NONE',  
; P 0290 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name  
; P 0291 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number  
; 0292 2 );  
; 0293 2  
; 0294 2 ! *****  
; 0295 2 [ Item_RA60 ] :  
; 0296 2 ! ATTACH RA60 HUB <name><unit>  
; P 0297 2 $ATTACH ('ATTACH RA60 HUB !AC!UW',  
; P 0298 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name  
; P 0299 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number  
; 0300 2 );  
; 0301 2  
; 0302 2 ! *****  
; 0303 2 [ Item_RA80 ] :  
; 0304 2 ! ATTACH RA80 HUB <name><unit>  
; P 0305 2 $ATTACH ('ATTACH RA80 HUB !AC!UW',  
; P 0306 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name  
; P 0307 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number  
; 0308 2 );  
; 0309 2  
; 0310 2 ! *****  
; 0311 2 [ Item_RA81 ] :  
; 0312 2 ! ATTACH RA81 HUB <name><unit>  
; P 0313 2 $ATTACH ('ATTACH RA81 HUB !AC!UW',  
; P 0314 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name  
; P 0315 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number  
; 0316 2 );  
; 0317 2  
; 0318 2 ! *****  
; 0319 2 [ Item_RC25 ] :  
; 0320 2  
; 0321 2 ! ATTACH RC25 HUB <name>  
; 0322 3 BEGIN  
; P 0323 3 $ATTACH ('ATTACH RC25 HUB !AC!UW',  
; P 0324 3 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name  
; P 0325 3 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Unit number  
; 0326 3 );  
; 0327 2 END;  
; 0328 2  
; 0329 2 ! *****  
; 0330 2 [ Item_RCF25 ] :  
; 0331 2  
; 0332 2 ! ATTACH RCF25 HUB <name>
```

```
: 0333 3 BEGIN
: P 0334 3 $ATTACH ('ATTACH RCF25 HUB !AC!UW',
: P 0335 3 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0336 3 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Unit number
: 0337 3 );
: 0338 2 END;
: 0339 2
: 0340 2 !*****
: 0341 2 [ Item_RK06 ] :
: 0342 2
: 0343 2 ! ATTACH RK06 HUB <name><unit>
: P 0344 2 $ATTACH ('ATTACH RK06 HUB !AC!UW',
: P 0345 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0346 2 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0347 2 );
: 0348 2
: 0349 2 !*****
: 0350 2 [ Item_RK07 ] :
: 0351 2
: 0352 2 ! ATTACH RK07 HUB <name><unit>
: P 0353 2 $ATTACH ('ATTACH RK07 HUB !AC!UW',
: P 0354 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0355 2 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0356 2 );
: 0357 2 !*****
: 0358 2 [ Item_RL01 ] :
: 0359 2
: 0360 2 ! ATTACH RL01 HUB <name><unit>
: P 0361 2 $ATTACH ('ATTACH RL01 HUB !AC!UW',
: P 0362 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0363 2 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0364 2 );
: 0365 2 !*****
: 0366 2 [ Item_RL02 ] :
: 0367 2
: 0368 2 ! ATTACH RL02 HUB <name><unit>
: P 0369 2 $ATTACH ('ATTACH RL02 HUB !AC!UW',
: P 0370 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0371 2 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0372 2 );
: 0373 2
: 0374 2 !*****
: 0375 2 [ Item_RM03 ] :
: 0376 2
: 0377 2 ! ATTACH RM03 HUB <name><unit>
: P 0378 2 $ATTACH ('ATTACH RM03 HUB !AC!UW',
: P 0379 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0380 2 CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0381 2 );
: 0382 2
: 0383 2 !*****
: 0384 2 [ Item_RM05 ] :
: 0385 2
: 0386 2 ! ATTACH RM05 HUB <name><unit>
: P 0387 2 $ATTACH ('ATTACH RM05 HUB !AC!UW',
```



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; P 0388 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0389 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0390 2 );
; 0391 2
; 0392 2 !*****
; 0393 2 [ Item_RM80 ] :
; 0394 2
; 0395 2 ! ATTACH RM80 HUB <name><unit>
; P 0396 2 $ATTACH ( 'ATTACH RM80 HUB !AC!UW',
; P 0397 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0398 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0399 2 );
; 0400 2
; 0401 2 !*****
; 0402 2 [ Item_RP04 ] :
; 0403 2
; 0404 2 ! ATTACH RP04 HUB <name><unit>
; P 0405 2 $ATTACH ( 'ATTACH RP04 HUB !AC!UW',
; P 0406 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0407 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0408 2 );
; 0409 2
; 0410 2 !*****
; 0411 2 [ Item_RP05 ] :
; 0412 2
; 0413 2 ! ATTACH RP05 HUB <name><unit>
; P 0414 2 $ATTACH ( 'ATTACH RP05 HUB !AC!UW',
; P 0415 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0416 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0417 2 );
; 0418 2
; 0419 2 !*****
; 0420 2 [ Item_RP06 ] :
; 0421 2
; 0422 2 ! ATTACH RP06 HUB <name><unit>
; P 0423 2 $ATTACH ( 'ATTACH RP06 HUB !AC!UW',
; P 0424 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0425 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0426 2 );
; 0427 2
; 0428 2 !*****
; 0429 2 [ Item_RP07 ] :
; 0430 2
; 0431 2 ! ATTACH RP07 HUB <name><unit>
; P 0432 2 $ATTACH ( 'ATTACH RP07 HUB !AC!UW',
; P 0433 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0434 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0435 2 );
; 0436 2
; 0437 2 !*****
; 0438 2 [ Item_RX02 ] :
; 0439 2
; 0440 2 ! ATTACH RX02 HUB <name><unit>
; P 0441 2 $ATTACH ( 'ATTACH RX02 HUB !AC!UW',
; P 0442 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
```

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: P 0443 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0444 2 );
: 0445 2
: 0446 2 ! *****
: 0447 2 [ Item_RX50 ] :
: 0448 2 ! . ATTACH RX50 HUB <name><unit>
: P 0449 2 $ATTACH ('ATTACH RX50 HUB !AC!UW',
: P 0450 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0451 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0452 2 );
: 0453 2
: 0454 2 ! *****
: 0455 2 [ Item_TE16 ] :
: 0456 2 ! . ATTACH TE16 HUB <name><unit>
: P 0457 2 $ATTACH ('ATTACH VS100 HUB !AC!UW',
: P 0458 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0459 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0460 2 );
: 0461 2
: 0462 2 ! *****
: 0463 2 [ Item_TK50 ] :
: 0464 2 ! . ATTACH TK50 HUB <name><unit> <csr> <vec> <br>
: P 0465 2 $ATTACH ('ATTACH TK50 HUB !AC!UW 760000 300 05',
: P 0466 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0467 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0468 2 );
: 0469 2
: 0470 2 ! *****
: 0471 2 [ Item_TS11 ] :
: 0472 2 ! . ATTACH TS11 HUB <name><unit> <csr> <vec> <br>
: 0473 2 $ATTACH ('ATTACH TS11 HUB !AC!UW 760000 300 05',
: 0474 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: 0475 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0476 2 );
: 0477 2
: 0478 2 ! *****
: 0479 2 [ Item_TU45 ] :
: 0480 2 ! . ATTACH TU45 HUB <name><unit>
: P 0481 2 $ATTACH ('ATTACH TU45 HUB !AC!UW',
: P 0482 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0483 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0484 2 );
: 0485 2
: 0486 2 ! *****
: 0487 2 [ Item_TU58 ] :
: 0488 2 ! . ATTACH TU58 HUB <name><unit> <csr> <vec> <br>
: P 0490 2 $ATTACH ('ATTACH TU58 HUB !AC!UW 760000 300 05',
: P 0491 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
: P 0492 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
: 0493 2 );
: 0494 2
: 0495 2 ! *****
: 0496 2 [ Item_TU77 ] :
: 0497 2 ! . ATTACH TU77 HUB <name><unit>
```

```
; P 0498 2 $ATTACH ('ATTACH TU77 HUB !AC!UW',
; P 0499 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0500 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0501 2 );
; 0502 2
; 0503 2 ! *****
; 0504 2 [ Item_TU78 ] :
; 0505 2 ! . ATTACH TU78 HUB <name><unit>
; P 0506 2 $ATTACH ('ATTACH TU78 HUB !AC!UW',
; P 0507 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0508 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0509 2 );
; 0510 2
; 0511 2 ! *****
; 0512 2 [ Item_TU80 ] :
; 0513 2 ! . ATTACH TU80 HUB <name><unit> <csr> <vec> <br>
; 0514 2 $ATTACH ('ATTACH TU80 HUB !AC!UW 760000 300 05',
; 0515 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; 0516 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0517 2 );
; 0518 2
; 0519 2 ! *****
; 0520 2 [ Item_TU81 ] :
; 0521 2 ! . ATTACH TU81 HUB <name><unit> <csr> <vec> <br>
; P 0522 2 $ATTACH ('ATTACH TU81 HUB !AC!UW 760000 300 05',
; P 0523 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0524 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0525 2 );
; 0526 2
; 0527 2 ! *****
; 0528 2 [ Item_VS100 ] :
; 0529 2 ! . ATTACH VS100 HUB <name><unit> <csr> <vec> <br>
; P 0530 2 $ATTACH ('ATTACH VS100 HUB !AC!UW 760000 300 05',
; P 0531 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0532 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0533 2 );
; 0534 2
; 0535 2 ! *****
; 0536 2 [ Item_VS125 ] :
; 0537 2 ! . ATTACH VS125 HUB <name><unit> <csr> <vec> <br>
; P 0538 2 $ATTACH ('ATTACH VS125 HUB !AC!UW 760000 300 05',
; P 0539 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0540 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0541 2 );
; 0542 2
; 0543 2 ! *****
; 0544 2 [ Item_VS300 ] :
; 0545 2 ! . ATTACH VS300 HUB <name><unit> <csr> <vec> <br>
; P 0546 2 $ATTACH ('ATTACH VS300 HUB !AC!UW 760000 300 05',
; P 0547 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0548 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0549 2 );
; 0550 2
; 0551 2 ! *****
; 0552 2 [ Item_UNA11 ] :
```

```
; 0553 2
; 0554 2 ! ATTACH UNA11 HUB <name><unit> <csr> <vec> <br>
; P 0555 2 $ATTACH ( 'ATTACH UNA11 HUB !AC!UW 760000 300 05',
; P 0556 2 CRD$GA_Rec_Buf[EVSBB$T_NAME], ! Device name
; P 0557 2 .CRD$GA_Rec_Buf[EVSBB$W_UNIT] ! Device unit number
; 0558 2 );
; 0559 2
; 0560 2 !*****
; 0561 2 [ OTHERWISE ] : RETURN 0 ! Nothing attached
; 0562 2 TES;
; 0563 2
; 0564 2 RETURN 1;
; 0565 1 END;
```

.TITLE MNGOIA

.PSECT \$PLIT\$,NOWRT,NOEXE,2

```
55 48 20 57 31 31 52 44 20 48 43 41 54 54 41 00000 P.AAA: .ASCII \ATTACH DR11W HUB .AC!UW 760000 300 05\<0> ;
30 30 30 30 36 37 20 57 55 21 43 41 21 20 42 0000F ;
00 00 35 30 20 30 30 33 20 0001E ;
00 00 00026 .ASCII <0><0> ;
48 20 50 32 33 46 4D 44 20 48 43 41 54 54 41 00028 P.AAB: .ASCII \ATTACH DMF32P HUB !AC 760000 300 05 OTHE\ ;
33 20 30 30 30 30 36 37 20 43 41 21 20 42 55 00037 ;
45 48 54 4F 20 35 30 20 30 30 00046 ;
00 00 00 52 00050 .ASCII \R\<0><0><0> ;
48 20 53 32 33 46 4D 44 20 48 43 41 54 54 41 00054 P.AAC: .ASCII \ATTACH DMF32S HUB !AC!UW 760000 300 05 N\ ;
30 30 30 36 37 20 57 55 21 43 41 21 20 42 55 00063 ;
4E 20 35 30 20 30 30 33 20 30 00072 ;
00 45 4E 4F 0007C .ASCII \ONE\<0> ;
42 55 48 20 30 36 41 52 20 48 43 41 54 54 41 00080 P.AAD: .ASCII \ATTACH RA60 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0008F ;
42 55 48 20 30 38 41 52 20 48 43 41 54 54 41 00098 P.AAE: .ASCII \ATTACH RA80 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 000A7 ;
42 55 48 20 31 38 41 52 20 48 43 41 54 54 41 000B0 P.AAF: .ASCII \ATTACH RA81 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 000BF ;
42 55 48 20 35 32 43 52 20 48 43 41 54 54 41 000C8 P.AAG: .ASCII \ATTACH RC25 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 000D7 ;
55 48 20 35 32 46 43 52 20 48 43 41 54 54 41 000E0 P.AAH: .ASCII \ATTACH RCF25 HUB !AC!UW\<0> ;
00 57 55 21 43 41 21 20 42 000EF ;
42 55 48 20 36 30 4B 52 20 48 43 41 54 54 41 000F8 P.AAI: .ASCII \ATTACH RK06 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 00107 ;
42 55 48 20 37 30 4B 52 20 48 43 41 54 54 41 00110 P.AAJ: .ASCII \ATTACH RK07 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0011F ;
42 55 48 20 31 30 4C 52 20 48 43 41 54 54 41 00128 P.AAK: .ASCII \ATTACH RL01 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 00137 ;
42 55 48 20 32 4F 4C 52 20 48 43 41 54 54 41 00140 P.AAL: .ASCII \ATTACH RLO2 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0014F ;
42 55 48 20 33 30 4D 52 20 48 43 41 54 54 41 00158 P.AAM: .ASCII \ATTACH RM03 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 00167 ;
42 55 48 20 35 30 4D 52 20 48 43 41 54 54 41 00170 P.AAN: .ASCII \ATTACH RM05 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0017F ;
42 55 48 20 30 38 4D 52 20 48 43 41 54 54 41 00188 P.AAO: .ASCII \ATTACH RM80 HUB !AC!UW\<0><0> .;
00 00 57 55 21 43 41 21 20 00197 ;
```

ZZ-ENSAB-2.0 MNGOA
MNGOA 19-Sep-1985 17:15:49 VAX-11 Bliss-32 V4.1-746
8-Jul-1985 14:42:35 [DS.CRD.V020]MNGOA.B32:1 (7)

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Sequence 1270

```
42 55 48 20 34 30 50 52 20 48 43 41 54 54 41 001A0 P.AAP: .ASCII \ATTACH RP04 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 001AF ;
42 55 48 20 35 30 50 52 20 48 43 41 54 54 41 001B8 P.AAQ: .ASCII \ATTACH RP05 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 001C7 ;
42 55 48 20 36 30 50 52 20 48 43 41 54 54 41 001D0 P.AAR: .ASCII \ATTACH RP06 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 001DF ;
42 55 48 20 37 30 50 52 20 48 43 41 54 54 41 001E8 P.AAS: .ASCII \ATTACH RP07 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 001F7 ;
42 55 48 20 32 30 58 52 20 48 43 41 54 54 41 00200 P.AAT: .ASCII \ATTACH RX02 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0020F ;
42 55 48 20 30 35 58 52 20 48 43 41 54 54 41 00218 P.AAU: .ASCII \ATTACH RX50 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 00227 ;
55 48 20 30 30 31 53 56 20 48 43 41 54 54 41 00230 P.AAV: .ASCII \ATTACH VS100 HUB !AC!UW\<0> ;
00 57 55 21 43 41 21 20 42 0023F ;
42 55 48 20 30 35 48 54 20 48 43 41 54 54 41 00248 P.AAW: .ASCII \ATTACH TK50 HUB !AC!UW 760000 300 05\ ;
20 30 30 30 30 36 37 20 57 55 21 43 41 21 20 00257 ;
35 30 20 30 30 33 00266 ;
42 55 48 20 35 34 55 54 20 48 43 41 54 54 41 0026C P.AAX: .ASCII \ATTACH TU45 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 0027B ;
42 55 48 20 38 35 55 54 20 48 43 41 54 54 41 00284 P.AAY: .ASCII \ATTACH TU58 HUB !AC!UW 760000 300 05\ ;
20 30 30 30 30 36 37 20 57 55 21 43 41 21 20 00293 ;
35 30 20 30 30 33 002A2 ;
42 55 48 20 37 37 55 54 20 48 43 41 54 54 41 002A8 P.AAZ: .ASCII \ATTACH TU77 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 002B7 ;
42 55 48 20 38 37 55 54 20 48 43 41 54 54 41 002C0 P.ABA: .ASCII \ATTACH TU78 HUB !AC!UW\<0><0> ;
00 00 57 55 21 43 41 21 20 002CF ;
42 55 48 20 31 38 55 54 20 48 43 41 54 54 41 002D8 P.ABB: .ASCII \ATTACH TU81 HUB !AC!UW 760000 300 05\ ;
20 30 30 30 30 36 37 20 57 55 21 43 41 21 20 002E7 ;
35 30 20 30 30 33 002F6 ;
55 48 20 30 30 31 53 56 20 48 43 41 54 54 41 002FC P.ABC: .ASCII \ATTACH VS100 HUB !AC!UW 760000 300 05\<0> ;
30 30 30 30 36 37 20 57 55 21 43 41 21 20 42 0030B ;
00 35 30 20 30 30 33 20 0031A ;
00 00 00322 .ASCII <0><0> ;
55 48 20 35 32 31 53 56 20 48 43 41 54 54 41 00324 P.ABD: .ASCII \ATTACH VS125 HUB !AC!UW 760000 300 05\<0> ;
30 30 30 30 36 37 20 57 55 21 43 41 21 20 42 00333 ;
00 35 30 20 30 30 33 20 00342 ;
00 00 0034A .ASCII <0><0> ;
55 48 20 30 30 33 53 56 20 48 43 41 54 54 41 0034C P.ABE: .ASCII \ATTACH VS300 HUB !AC!UW 760000 300 05\<0> ;
30 30 30 30 36 37 20 57 55 21 43 41 21 20 42 0035B ;
00 35 30 20 30 30 33 20 0036A ;
00 00 00372 .ASCII <0><0> ;
55 48 20 31 31 41 4E 55 20 48 43 41 54 54 41 00374 P.ABF: .ASCII \ATTACH UNA11 HUB !AC!UW 760000 300 05\<0> ;
30 30 30 30 36 37 20 57 55 21 43 41 21 20 42 00383 ;
00 35 30 20 30 30 33 20 00392 ;
00 00 0039A .ASCII <0><0> ;
```

.PSECT \$OWN\$,NOEXE,2

00000 FAO_BUF: .BLKB 80

00050 FAO_INPUT_DSC:

.BLKB 8

00058 FAO_LENGTH:

.BLKB 2

0005A .BLKB 2

0005C FAO_OUTPUT_DSC:

.BLKB 8
00064 ITEM: .BLKB 4
00068 STATUS: .BLKB 4
0006C T1: .BLKB 4
00070 T2: .BLKB 4

.EXTRN CRD\$GA_REC_BUF, SYS\$FAO

.PSECT \$CODE\$,NOWRT,2

```
007C 00000 .ENTRY MEN$GENERATE_ONLINE_ATTACH, Save R2,R3,R4,- ; 0178
R5,R6
05 00000000G EF 91 00002 CMPB CRD$GA_REC_BUF+100, #5 ; 0226
03 13 00009 BEQL 1$ ;
03F3 31 0000B BRW 33$ ;
0000' CF 010E0050 8F D0 0000E 1$: MOVL #17694800, FAO_OUTPUT_DSC ; 0230
0000' CF 0000' CF 9E 00017 MOVAB FAO_BUF, FAO_OUTPUT_DSC+4 ; 0233
0000' CF 00000000G EF B0 0001E MOVW CRD$GA_REC_BUF+8, ITEM ; 0237
0000' CF 00000000G EF B0 00027 MOVW CRD$GA_REC_BUF+17, ITEM+2 ; 0239
56 0000' CF D0 00030 MOVL ITEM, R6 ; 0243
41580460 8F 56 D1 00035 CMPL R6, #1096287328 ; 0246
13 12 0003C BNEQ 2$ ;
0000' CF 010E0025 8F D0 0003E MOVL #17694757, FAO_INPUT_DSC ; 0251
0000' CF 0000' CF 9E 00047 MOVAB P.AAA, FAO_INPUT_DSC+4 ;
0376 31 0004E BRW 33$ ;
434C0A43 8F 56 D1 00051 2$: CMPL R6, #1129056835 ; 0278
2C 12 00058 BNEQ 3$ ;
0000' CF 010E0029 8F D0 0005A MOVL #17694761, FAO_INPUT_DSC ; 0283
0000' CF 0000' CF 9E 00063 MOVAB P.AAB, FAO_INPUT_DSC+4 ;
00000000G EF 9F 0006A PUSHAB CRD$GA_REC_BUF+16 ;
0000' CF 9F 00070 PUSHAB FAO_OUTPUT_DSC ;
0000' CF 9F 00074 PUSHAB FAO_LENGTH ;
0000' CF 9F 00078 PUSHAB FAO_INPUT_DSC ;
00000000G 00 04 FB 0007C CALLS #4, SYS$FAO ;
0361 31 00083 BRW 34$ ;
47580A20 8F 56 D1 00086 3$: CMPL R6, #1196952096 ; 0286
13 12 0008D BNEQ 4$ ;
0000' CF 010E002B 8F D0 0008F MOVL #17694763, FAO_INPUT_DSC ; 0292
0000' CF 0000' CF 9E 00098 MOVAB P.AAC, FAO_INPUT_DSC+4 ;
0325 31 0009F BRW 33$ ;
4A441601 8F 56 D1 000A2 4$: CMPL R6, #1245976065 ; 0295
13 12 000A9 BNEQ 5$ ;
0000' CF 010E0016 8F D0 000AB MOVL #17694742, FAO_INPUT_DSC ; 0300
0000' CF 0000' CF 9E 000B4 MOVAB P.AAD, FAO_INPUT_DSC+4 ;
0309 31 000BB BRW 33$ ;
4A441401 8F 56 D1 000BE 5$: CMPL R6, #1245975553 ; 0303
13 12 000C5 BNEQ 6$ ;
0000' CF 010E0016 8F D0 000C7 MOVL #17694742, FAO_INPUT_DSC ; 0308
0000' CF 0000' CF 9E 000D0 MOVAB P.AAE, FAO_INPUT_DSC+4 ;
02ED 31 000D7 BRW 33$ ;
55441501 8F 56 D1 000DA 6$: CMPL R6, #1430525185 ; 0311
13 12 000E1 BNEQ 7$ ;
0000' CF 010E0016 8F D0 000E3 MOVL #17694742, FAO_INPUT_DSC ; 0316
0000' CF 0000' CF 9E 000EC MOVAB P.AAF, FAO_INPUT_DSC+4 ;
02D1 31 000F3 BRW 33$ ;
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41441701 8F 56 D1 000F6 7$: CMPL R6, #1094981377 ; 0319
13 12 000FD BNEQ 8$
0000' CF 010E0016 8F D0 000FF MOVL #17694742, FAO_INPUT_DSC ; 0326
0000' CF 0000' CF 9E 00108 MOVAB P.AAG, FAO_INPUT_DSC+4 ;
02B5 31 0010F BRW 33$
41441801 8F 56 D1 00112 8$: CMPL R6, #1094981633 ; 0330
13 12 00119 BNEQ 9$
0000' CF 010E0017 8F D0 0011B MOVL #17694743, FAO_INPUT_DSC ; 0337
0000' CF 0000' CF 9E 00124 MOVAB P.AAH, FAO_INPUT_DSC+4 ;
0299 31 0012B BRW 33$
4D440101 8F 56 D1 0012E 9$: CMPL R6, #1296302337 ; 0341
13 12 00135 BNEQ 10$
0000' CF 010E0016 8F D0 00137 MOVL #17694742, FAO_INPUT_DSC ; 0347
0000' CF 0000' CF 9E 00140 MOVAB P.AAI, FAO_INPUT_DSC+4 ;
027D 31 00147 BRW 33$
4D440201 8F 56 D1 0014A 10$: CMPL R6, #1296302593 ; 0350
13 12 00151 BNEQ 11$
0000' CF 010E0016 8F D0 00153 MOVL #17694742, FAO_INPUT_DSC ; 0356
0000' CF 0000' CF 9E 0015C MOVAB P.AAJ, FAO_INPUT_DSC+4 ;
0261 31 00163 BRW 33$
4C440901 8F 56 D1 00166 11$: CMPL R6, #1279527169 ; 0358
13 12 0016D BNEQ 12$
0000' CF 010E0016 8F D0 0016F MOVL #17694742, FAO_INPUT_DSC ; 0364
0000' CF 0000' CF 9E 00178 MOVAB P.AAK, FAO_INPUT_DSC+4 ;
0245 31 0017F BRW 33$
4C440A01 8F 56 D1 00182 12$: CMPL R6, #1279527425 ; 0366
13 12 00189 BNEQ 13$
0000' CF 010E0016 8F D0 0018B MOVL #17694742, FAO_INPUT_DSC ; 0372
0000' CF 0000' CF 9E 00194 MOVAB P.AAL, FAO_INPUT_DSC+4 ;
0229 31 0019B BRW 33$
52440601 8F 56 D1 0019E 13$: CMPL R6, #1380189697 ; 0375
13 12 001A5 BNEQ 14$
0000' CF 010E0016 8F D0 001A7 MOVL #17694742, FAO_INPUT_DSC ; 0381
0000' CF 0000' CF 9E 001B0 MOVAB P.AAM, FAO_INPUT_DSC+4 ;
020D 31 001B7 BRW 33$
52440F01 8F 56 D1 001BA 14$: CMPL R6, #1380192001 ; 0384
13 12 001C1 BNEQ 15$
0000' CF 010E0016 8F D0 001C3 MOVL #17694742, FAO_INPUT_DSC ; 0390
0000' CF 0000' CF 9E 001CC MOVAB P.AAN, FAO_INPUT_DSC+4 ;
01F1 31 001D3 BRW 33$
52440D01 8F 56 D1 001D6 15$: CMPL R6, #1380191489 ; 0393
13 12 001DD BNEQ 16$
0000' CF 010E0016 8F D0 001DF MOVL #17694742, FAO_INPUT_DSC ; 0399
0000' CF 0000' CF 9E 001E8 MOVAB P.AAO, FAO_INPUT_DSC+4 ;
01D5 31 001EF BRW 33$
42440301 8F 56 D1 001F2 16$: CMPL R6, #1111753473 ; 0402
13 12 001F9 BNEQ 17$
0000' CF 010E0016 8F D0 001FB MOVL #17694742, FAO_INPUT_DSC ; 0408
0000' CF 0000' CF 9E 00204 MOVAB P.AAP, FAO_INPUT_DSC+4 ;
01B9 31 0020B BRW 33$
42440401 8F 56 D1 0020E 17$: CMPL R6, #1111753729 ; 0411
13 12 00215 BNEQ 18$
0000' CF 010E0016 8F D0 00217 MOVL #17694742, FAO_INPUT_DSC ; 0417
0000' CF 0000' CF 9E 00220 MOVAB P.AAQ, FAO_INPUT_DSC+4 ;
019D 31 00227 BRW 33$
```

```
42440501 8F 56 D1 0022A 18$: CMPL R6, #1111753985 ; 0420
13 12 00231 BNEQ 19$
0000' CF 010E0016 8F D0 00233 MOVL #17694742, FAO_INPUT_DSC ; 0426
0000' CF 0000' CF 9E 0023C MOVAB P.AAR, FAO_INPUT_DSC+4 ;
0181 31 00243 BRW 33$
52440701 8F 56 D1 00246 19$: CMPL R6, #1380189953 ; 0429
13 12 0024D BNEQ 20$
0000' CF 010E0016 8F D0 0024F MOVL #17694742, FAO_INPUT_DSC ; 0435
0000' CF 0000' CF 9E 00258 MOVAB P.AAS, FAO_INPUT_DSC+4 ;
0165 31 0025F BRW 33$
59440801 8F 56 D1 00262 20$: CMPL R6, #1497631489 ; 0438
13 12 00269 BNEQ 21$
0000' CF 010E0016 8F D0 0026B MOVL #17694742, FAO_INPUT_DSC ; 0444
0000' CF 0000' CF 9E 00274 MOVAB P.AAT, FAO_INPUT_DSC+4 ;
0149 31 0027B BRW 33$
55441A01 8F 56 D1 0027E 21$: CMPL R6, #1430526465 ; 0447
13 12 00285 BNEQ 22$
0000' CF 010E0016 8F D0 00287 MOVL #17694742, FAO_INPUT_DSC ; 0452
0000' CF 0000' CF 9E 00290 MOVAB P.AAU, FAO_INPUT_DSC+4 ;
012D 31 00297 BRW 33$
544D0102 8F 56 D1 0029A 22$: CMPL R6, #1414332674 ; 0455
13 12 002A1 BNEQ 23$
0000' CF 010E0017 8F D0 002A3 MOVL #17694743, FAO_INPUT_DSC ; 0460
0000' CF 0000' CF 9E 002AC MOVAB P.AAV, FAO_INPUT_DSC+4 ;
0111 31 002B3 BRW 33$
554D0A02 8F 56 D1 002B6 23$: CMPL R6, #1431112194 ; 0463
13 12 002BD BNEQ 24$
0000' CF 010E0024 8F D0 002BF MOVL #17694756, FAO_INPUT_DSC ; 0468
0000' CF 0000' CF 9E 002C8 MOVAB P.AAW, FAO_INPUT_DSC+4 ;
00F5 31 002CF BRW 33$
544D0202 8F 56 D1 002D2 24$: CMPL R6, #1414332930 ; 0479
13 12 002D9 BNEQ 25$
0000' CF 010E0016 8F D0 002DB MOVL #17694742, FAO_INPUT_DSC ; 0484
0000' CF 0000' CF 9E 002E4 MOVAB P.AAX, FAO_INPUT_DSC+4 ;
00D9 31 002EB BRW 33$
44440E01 8F 56 D1 002EE 25$: CMPL R6, #1145310721 ; 0487
13 12 002F5 BNEQ 26$
0000' CF 010E0024 8F D0 002F7 MOVL #17694756, FAO_INPUT_DSC ; 0493
0000' CF 0000' CF 9E 00300 MOVAB P.AAY, FAO_INPUT_DSC+4 ;
00BD 31 00307 BRW 33$
544D0302 8F 56 D1 0030A 26$: CMPL R6, #1414333186 ; 0496
13 12 00311 BNEQ 27$
0000' CF 010E0016 8F D0 00313 MOVL #17694742, FAO_INPUT_DSC ; 0501
0000' CF 0000' CF 9E 0031C MOVAB P.AAZ, FAO_INPUT_DSC+4 ;
00A1 31 00323 BRW 33$
464D0502 8F 56 D1 00326 27$: CMPL R6, #1179452674 ; 0504
13 12 0032D BNEQ 28$
0000' CF 010E0016 8F D0 0032F MOVL #17694742, FAO_INPUT_DSC ; 0509
0000' CF 0000' CF 9E 00338 MOVAB P.ABA, FAO_INPUT_DSC+4 ;
0085 31 0033F BRW 33$
554D0802 8F 56 D1 00342 28$: CMPL R6, #1431111682 ; 0520
12 12 00349 BNEQ 29$
0000' CF 010E0024 8F D0 0034B MOVL #17694756, FAO_INPUT_DSC ; 0525
0000' CF 0000' CF 9E 00354 MOVAB P.ABB, FAO_INPUT_DSC+4 ;
6A 11 0035B BRB 33$
```


22-ENSAB-2.0 MENG0A
MENG0A 19-Sep-1985 17:15:49 VAX-11 Bliss-32 V4.1-746
8-Jul-1985 14:42:35 [DS.CRD.V020]MENG0A.B32;1 (7)

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19-Sep-1985
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Fiche 7 Frame M3

Sequence 1274

```
42560146 8F 56 D1 0035D 29$: CMPL R6, #1112932678 ; 0528
12 12 00364 BNEQ 30$ ;
0000' CF 010E0025 8F D0 00366 MOVL #17694757, FAO_INPUT_DSC ; 0533
0000' CF 0000' CF 9E 0036F MOVAB P.ABC, FAO_INPUT_DSC+4 ;
4F 11 00376 BRB 33$ ;
42560246 8F 56 D1 00378 30$: CMPL R6, #1112932934 ; 0536
12 12 0037F BNEQ 31$ ;
0000' CF 010E0025 8F D0 00381 MOVL #17694757, FAO_INPUT_DSC ; 0541
0000' CF 0000' CF 9E 0038A MOVAB P.ABD, FAO_INPUT_DSC+4 ;
34 11 00391 BRB 33$ ;
42560346 8F 56 D1 00393 31$: CMPL R6, #1112933190 ; 0544
12 12 0039A BNEQ 32$ ;
0000' CF 010E0025 8F D0 0039C MOVL #17694757, FAO_INPUT_DSC ; 0549
0000' CF 0000' CF 9E 003A5 MOVAB P.ABE, FAO_INPUT_DSC+4 ;
19 11 003AC BRB 33$ ;
45580E20 8F 56 D1 003AE 32$: CMPL R6, #1163398688 ; 0552
4A 12 003B5 BNEQ 35$ ;
0000' CF 010E0025 8F D0 003B7 MOVL #17694757, FAO_INPUT_DSC ; 0558
0000' CF 0000' CF 9E 003C0 MOVAB P.ABF, FAO_INPUT_DSC+4 ;
7E 00000000G EF 3C 003C7 33$: MOVZWL CRD$GA_REC_BUF+32, -(SP) ;
00000000G EF 9F 003CE PUSHAB CRD$GA_REC_BUF+16 ;
0000' CF 9F 003D4 PUSHAB FAO_OUTPUT_DSC ;
0000' CF 9F 003D8 PUSHAB FAO_LENGTH ;
0000' CF 9F 003DC PUSHAB FAO_INPUT_DSC ;
00000000G 00 05 FB 003E0 CALLS #5, SYS$FAO ;
0000' CF 50 D0 003E7 34$: MOVL R0, STATUS ;
10 0000' CF E9 003EC BLBC STATUS, 35$ ;
04 AC 20 0000' CF 0000' CF 2C 003F1 MOVCS FAO_LENGTH, FAO_BUF, #32, - ;
08 BC 003FB CLI BUFFER_LENGTH, @CLI_BUFFER_ADDRESS ;
50 01 D0 003FD MOVL #1, R0 ; 0564
04 00400 RET ;
50 D4 00401 35$: CLRL R0 ; 0565
04 00403 RET ;
```

; Routine Size: 1028 bytes, Routine Base: \$CODE\$ + 0000

; 0566 1 END
; 0567 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS\$	116	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS\$	924	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1028	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$ATTACH	Macro	67 248	281 289 297	305 313 323 334 344 353 361
		369 378 387 396 405 414 423 432 441 449 457		
		465 481 490 498 506 522 530 538 546 555		
\$FAO	Unbound	74		
	Macro Lib01	251 283	292 300 308	316 326 337 347 356 364
		372 381 390 399 408 417 426 435 444 452 460		
		468 484 493 501 509 525 533 541 549 558		
\$LITERAL	KeyWMacr	54 117	118 120 121	122 124 126 127 129 130 132
		133 135 136 137 138 140 141 143 145 147 153		
		154 155 157 158 160 165 166 167 169 171 173		
CLASS	KeyWForm	54 56		
CLI_BUFFER	ADDRESS	Unbound	83	
	RoutForm	179 251a=	283a= 292a= 300a= 308a= 316a= 326a= 337a= 347a= 356a= 364a=	
		372a= 381a= 390a= 399a= 408a= 417a= 426a= 435a= 444a= 452a= 460a=		
		468a= 484a= 493a= 501a= 509a= 525a= 533a= 541a= 549a= 558a=		
CLI_BUFFER	LENGTH	Unbound	83	
	RoutForm	179 251.	283. 292. 300. 308. 316. 326. 337. 347. 356. 364.	
		372. 381. 390. 399. 408. 417. 426. 435. 444. 452. 460.		
		468. 484. 493. 501. 509. 525. 533. 541. 549. 558.		
CNTRL	MacrForm	67 69 72		
CRD\$GA_REC	BUF	External 210 212m	226. 237. 238. 239. 251a 251. 283a 292a 292. 300a	
		300. 308a 308. 316a 316. 326a 326. 337a 337. 347a 347.		
		356a 356. 364a 364. 372a 372. 381a 381. 390a 390. 399a		
		399. 408a 408. 417a 417. 426a 426. 435a 435. 444a 444.		
		452a 452. 460a 460. 468a 468. 484a 484. 493a 493. 501a		
		501. 509a 509. 525a 525. 533a 533. 541a 541. 549a 549.		
		558a 558.		
DC\$_DISK	Literal Lib01	117 118	120 121 122 124 126 127 129 130 132	
		133 135 136 137 138 140 141 143		
DC\$_LP	Literal Lib01	145		
DC\$_REALTIME	Literal Lib01	169		
DC\$_SCOM	Literal Lib01	171 173		
DC\$_TAPE	Literal Lib01	147 153	154 155 157 158	

Symbol	Type	Defined	Referenced	...
DC\$_TERM	Literal	Lib01	160	
DC\$_WORKSTATION	Literal	Lib01	165	166 167
DRIVER	KeyWForm	54	56	
DSC\$_K_CLASS_S	Unbound		71	
	Literal	Lib01	232	251 283 292 300 308 316 326 337 347 356
		364	372 381	390 399 408 417 426 435 444 452
		460	468 484	493 501 509 525 533 541 549 558
DSC\$_K_DTYPE_T	Unbound		70	
	Literal	Lib01	231	251 283 292 300 308 316 326 337 347 356
		364	372 381	390 399 408 417 426 435 444 452
		460	468 484	493 501 509 525 533 541 549 558
DT\$_DMF32	Literal	Lib01	145	173
DT\$_DR11W	Literal	Lib01	169	
DT\$_DZ32	Literal	Lib01	160	
DT\$_RA60	Literal	Lib01	126	
DT\$_RA80	Literal	Lib01	127	
DT\$_RA81	Literal	Lib01	141	
DT\$_RK06	Literal	Lib01	132	
DT\$_RK07	Literal	Lib01	133	
DT\$_RL01	Literal	Lib01	129	
DT\$_RL02	Literal	Lib01	130	
DT\$_RM03	Literal	Lib01	135	
DT\$_RM05	Literal	Lib01	136	
DT\$_RM80	Literal	Lib01	137	
DT\$_RP04	Literal	Lib01	120	
DT\$_RP05	Literal	Lib01	121	
DT\$_RP06	Literal	Lib01	122	
DT\$_RP07	Literal	Lib01	138	
DT\$_RX02	Literal	Lib01	143	
DT\$_RX50	Literal	Lib01	140	
DT\$_RZ01	Literal	Lib01	117	
DT\$_RZF01	Literal	Lib01	118	
DT\$_TE16	Literal	Lib01	153	
DT\$_TK50	Literal	Lib01	157	
DT\$_TU45	Literal	Lib01	154	
DT\$_TU58	Literal	Lib01	124	
DT\$_TU77	Literal	Lib01	155	
DT\$_TU78	Literal	Lib01	147	
DT\$_TU81	Literal	Lib01	158	
DT\$_UNA11	Literal	Lib01	171	
DT\$_VS100	Literal	Lib01	165	
DT\$_VS125	Literal	Lib01	166	
DT\$_VS300	Literal	Lib01	167	
EVSBB\$_B_CLASS	Macro	Lib02	237	
EVSBB\$_B_TYPE	Macro	Lib02	238	
EVSBB\$_B_WHOSE	Macro	Lib02	226	
EVSBB\$_T_NAME	Macro	Lib02	239	249 282 290 298 306 314 324 335 345 354
		362	370 379 388	397 406 415 424 433 442 450
		458	466 482	491 499 507 523 531 539 547 556
EVSBB\$_W_UNIT	Macro	Lib02	250	291 299 307 315 325 336 346 355 363 371
		380	389 398	407 416 425 434 443 451 459 467
		483	492 500	508 524 532 540 548 557
EVSBB\$_MINE	Literal	Lib02	226	

Symbol	Type	Defined	Referenced ...
FAO_BUF	Unbound	82	
Own		215 233a 251. 283. 292. 300. 308. 316. 326. 337. 347. 356.	
364. 460.		372. 468. 381. 484. 390. 493. 399. 501. 408. 509. 417. 525. 426. 533. 435. 541. 444. 549. 452. 558.	
FAO_BUF_SIZE	Literal	207 215 230	
FAO_INPUT_DSC	Unbound	69 70 71 72 75	
Own		216 251= 251a 283= 283a 292= 292a 300= 300a 308= 308a 316=	
316a 372=		326= 326a 337= 337a 347= 347a 356= 356a 364= 364a 372a 381= 381a 390= 390a 399= 399a 408= 408a 417= 417a 426= 426a 435= 435a 444= 444a 452= 452a 460= 460a 468= 468a 484= 484a 493= 493a 501= 501a 509= 509a 525= 525a 533= 533a 541= 541a 549= 549a 558= 558a	
FAO_LENGTH	Unbound	76 82	
Own		217 251a 251. 283a 283. 292a 292. 300a 300. 308a 308. 316a	
316. 372a 417. 468a 525.		326a 326. 337a 337. 347a 347. 356a 356. 364a 364. 372. 381a 381. 390a 390. 399a 399. 408a 408. 417a 417. 426a 426. 435a 435. 444a 444. 452a 452. 460a 460. 468a 468. 484a 484. 493a 493. 501a 501. 509a 509. 525a 525. 533a 533. 541a 541. 549a 549. 558a 558.	
FAO_OUTPUT_DSC	Unbound	77	
Own		218 230= 231= 232= 233= 251a 283a 292a 300a 308a 316a 326a	
337a 435a 541a		347a 356a 364a 372a 381a 390a 399a 408a 417a 426a 444a 452a 460a 468a 484a 493a 501a 509a 525a 533a 549a 558a	
ITEM	Own	219 237= 238= 239= 243.	
ITEM_DM32P	Literal	145 278	
ITEM_DM32S	Literal	173 286	
ITEM_DR11W	Literal	169 246	
ITEM_DZ32	Literal	160	
ITEM_RA60	Literal	126 295	
ITEM_RA80	Literal	127 303	
ITEM_RA81	Literal	141 311	
ITEM_RC25	Literal	117 319	
ITEM_RCF25	Literal	118 330	
ITEM_RK06	Literal	132 341	
ITEM_RK07	Literal	133 350	
ITEM_RL01	Literal	129 358	
ITEM_RL02	Literal	130 366	
ITEM_RM03	Literal	135 375	
ITEM_RM05	Literal	136 384	
ITEM_RM80	Literal	137 393	
ITEM_RP04	Literal	120 402	
ITEM_RP05	Literal	121 411	
ITEM_RP06	Literal	122 420	
ITEM_RP07	Literal	138 429	
ITEM_RX02	Literal	143 438	
ITEM_RX50	Literal	140 447	
ITEM_TE16	Literal	153 455	
ITEM_TK50	Literal	157 463	
ITEM_TU45	Literal	154 479	
ITEM_TU58	Literal	124 487	
ITEM_TU77	Literal	155 496	
ITEM_TU78	Literal	147 504	

ZZ-ENSAB-2.0 MENG0A
 MENG0A 19-Sep-1985 17:15:49 VAX-11 Bliss-32 V4.1-746
 8-Jul-1985 14:42:35 [DS.CRD.V020]MENG0A.B32;1 (8)

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 19-Sep-1985
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Fiche 7 Frame D4

Sequence 1278

Symbol	Type	Defined	Referenced	...
ITEM_TU81	Literal	158	520	
ITEM_UNA11	Literal	171	552	
ITEM_VS100	Literal	165	528	
ITEM_VS125	Literal	166	536	
ITEM_VS300	Literal	167	544	
MEN\$GENERATE_ONLINE_ATTACH	GlobRout	179		
NAME	KeyWForm	54	56	
STATUS	Unbound	74	80	
Own	220	251=	251.	283= 283. 292= 292. 300= 300. 308= 308. 316=
316.	326=	326.	337=	337. 347= 347. 356= 356. 364= 364.
372=	372.	381=	381.	390= 390. 399= 399. 408= 408. 417=
417.	426=	426.	435=	435. 444= 444. 452= 452. 460= 460.
468=	468.	484=	484.	493= 493. 501= 501. 509= 509. 525=
525.	533=	533.	541=	541. 549= 549. 558= 558.
SYS\$FAO	ExtRout	251	251c	283e 283c 292e 292c 300e 300c 308e 308c 316e 316c
326e	326c	337e	337c	347e 347c 356e 356c 364e 364c 372e
372c	381e	381c	390e	390c 399e 399c 408e 408c 417e 417c
426e	426c	435e	435c	444e 444c 452e 452c 460e 460c 468e
468c	484e	484c	493e	493c 501e 501c 509e 509c 525e 525c
533e	533c	541e	541c	549e 549c 558e 558c
T1	Own	221		
T2	Own	221		
TYPE	KeyWForm	54	56	

CROSS REFERENCE MAP

Line # Event File ...
 1 Source (start) DISK\$DIAGPACK03:[DS.CRD.V020]MENG0A.B32;1
 2 Module MENG0A
 35 Library #1 SYS\$COMMON:[SYSLIB]LIB.L32;2
 36 Library #2 DISK\$DIAGPACK03:[DS.EVSBB.DEF]EVSBB_DEF.L32;1
 567 Eludom MENG0A

KEY TO REFERENCE TYPE FLAGS

. Fetch
 = Store
 c Routine call
 a Address use
 @ Indirect use
 e External, external routine, or external literal declaration
 f Forward or forward routine declaration
 h Condition handler enabling
 m Map declaration
 u Undeclare declaration

; Library Statistics
 ;

ZZ-ENSAB-2.0 MNGOA
MNGOA 19-Sep-1985 17:15:49 VAX-11 Bliss-32 V4.1-746
8-Jul-1985 14:42:35 [DS.CRD.V020]MNGOA.B32;1 (8)

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19-Sep-1985
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Fiche 7 Frame E4

Sequence 1279

; File	----- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
; SYS\$COMMON:[SYSLIB]LIB.L32;2		18619	42	0	1000
; DISK\$DIAGPACK03:[DS.EVSBB.DEF]EVSBB_DEF.L32;1					00:01.3
; 44	6	13	7		00:00.1

; COMMAND QUALIFIERS

; BLISS MNGOA.B32/LIST=MNGOA.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MNGOA.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 1028 code + 1040 data bytes
; Run Time: 00:27.9
; Elapsed Time: 00:49.6
; Lines/CPU Min: 1220
; Lexemes/CPU-Min: 36889
; Memory Used: 599 pages
; Compilation Complete

```
; 0001 0 xTITLE 'CRD MENU - Menu Prompt Module'
; 0002 0 MODULE MENPROMPT (
; 0003 0 IDENT = 'V01.1'
; 0004 0 ) =
; 0005 0 !
; 0006 0 ! COPYRIGHT (C) 1982
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
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; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !
```

```

: 0024 0 : **
: 0025 0 : FACILITY:
: 0026 0 :
: 0027 0 : ABSTRACT:
: 0028 0 :
: 0029 0 : ENVIRONMENT:
: 0030 0 :
: 0031 0 : AUTHOR:
: 0032 0 :
: 0033 0 : John Ciukaj May-1982
: 0034 0 :
: 0035 0 : CREATION DATE:
: 0036 0 :
: 0037 0 : VERSION:
: 0038 0 :
: 0039 0 : Modified by:
: 0040 0 :
: 0041 0 : [01] John Ciukaj Version 1.1 Jan. 1983
: 0042 0 :
: 0043 0 : - Added 'Test All' selection in Functional Test
: 0044 0 : Menu Table
: 0045 0 :
: 0046 0 : [02] Scott Cohen Version 1.2 June 17, 1983
: 0047 0 : For Soft Console support
: 0048 0 : - Added $SCREEN_Literals
: 0049 0 : - Changed MEN$FuncTest_Menu to clear screen after operator input
: 0050 0 : - Changed MEN$Print_System_Hdwr to pause after screen is full
: 0051 0 :
: 0052 0 : [03] Ron Parker November 1984
: 0053 0 : Added prep message #7
: 0054 0 : -

```



```
; 0055 0 xSBTTL 'Libraries'
; 0056 1 BEGIN
; 0057 1
; 0058 1 LIBRARY '$DS';
; 0059 1 LIBRARY '$DIAG';
; 0060 1 LIBRARY '$CRD';
; 0061 1 LIBRARY 'SYS$LIBRARY:LIB';
; 0062 1
; 0063 1
```

```
: 0064 1 xSBTTL 'Forward-External Routines'
: 0065 1
: 0066 1 FORWARD ROUTINE
: 0067 1 MEN$FuncTest_Menu : ADDRESSING_MODE (LONG_RELATIVE),
: 0068 1 MEN$FTMTbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
: 0069 1 MEN$Test_Menu : ADDRESSING_MODE (LONG_RELATIVE),
: 0070 1 MEN$PrepTbl_Init : ADDRESSING_MODE (LONG_RELATIVE),
: 0071 1 MEN$Get_TstCla_Name : ADDRESSING_MODE (LONG_RELATIVE),
: 0072 1 MEN$FndDDB_Tcl_SDN : ADDRESSING_MODE (LONG_RELATIVE),
: 0073 1 MEN$FndDDB_Tcl : ADDRESSING_MODE (LONG_RELATIVE),
: 0074 1 MEN$Print_DevTstPrep : ADDRESSING_MODE (LONG_RELATIVE),
: 0075 1 MEN$Print_System_Hdwr : ADDRESSING_MODE (LONG_RELATIVE);
```

```
: 0076 1 xSBTTL 'Psect Definitions'
: 0077 1
: 0078 1 PSECT
: 0079 1 Plit = Data (NoExecute, Share, NoWrite, Addressing_Mode (Long_Relative));
: 0080 1 PSECT
: 0081 1 Code = Code (Execute, Share, NoWrite, Addressing_Mode (Long_Relative), PIC);
: 0082 1 PSECT
: 0083 1 Own = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
: 0084 1 PSECT
: 0085 1 Global = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
```

ZZ-ENSAB-2.0 Macro and Literal Definitions

MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746

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V01.1 Macro and Literal Definitions 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1

(6)

```
; 0086 1 $SBTTL 'Macro and Literal Definitions'
; 0087 1
; 0088 1 $CRD_Literals;
; 0089 1 $MEN_Literals;
; 0090 1 $SCREEN_Literals;
```



```

; 0094 1 xSBTTL 'Own Storage - Plits'
; 0095 1
; 0096 1 LITERAL
; 0097 1     HdwrNam_String_Buf_Sz = MEN$K_OperInput_Buffer_Size;
; 0098 1
; 0099 1 GLOBAL
; 0100 1     MEN$GT_OperInput_Buffer : $MEN_OperInput_Buffer_ATTR;
; 0101 1
; 0102 1 BIND
; 0103 1     HdwrNam_String_Buf = MEN$GT_OperInput_Buffer;
; 0104 1
; 0105 1 BIND
; 0106 1     T_Prompt_Default = $ASCIC ('?') : VECTOR [,BYTE];

```

```

: 0107 1 xSBTTL 'FUNCTIONAL TEST MAIN MENU Table'
: 0108 1
: 0109 1 !+
: 0110 1 ! Contains information relevant to all selections available
: 0111 1 ! from the Functional Test Menu.
: 0112 1 ! Because the CRD MENU code is loadable it is necessary to invoke the
: 0113 1 ! Initialization routine associated with this table following loading
: 0114 1 ! and before the table is accessed (see MENTSTINI module).
: 0115 1 !-
: 0116 1
: 0117 1 GLOBAL
: 0118 1     MEN$GA_FTMTbl : $MEN_FTMTbl_ATTR
: 0119 1     INITIAL (
: 0120 1
: 0121 1     BYTE (xC'A'),
: 0122 1     BYTE (MEN$K_FTMSel_Exit),
: 0123 1     LONG (MEN$GT_FTMSel_Exit),
: 0124 1
: 0125 1     BYTE (xC'B'),
: 0126 1     BYTE (MEN$K_FTMSel_System_Hdwr),
: 0127 1     LONG (MEN$GT_FTMSel_System_Hdwr),
: 0128 1
: 0129 1     BYTE (xC'C'),
: 0130 1     BYTE (MEN$K_FTMSel_Prep),
: 0131 1     LONG (MEN$GT_FTMSel_Prep),
: 0132 1
: 0133 1     BYTE (xC'D'),
: 0134 1     BYTE (MEN$K_FTMSel_Test),
: 0135 1     LONG (MEN$GT_FTMSel_Test),
: 0136 1
: 0137 1     BYTE (xC'E'),
: 0138 1     BYTE (MEN$K_FTMSel_FncTst_All),
: 0139 1     LONG (MEN$GT_FTMSel_FncTst_All)
: 0140 1 );
    
```

```

; 0141 1 xSBTTL 'FUNCTIONAL TEST MAIN MENU Table Initialization Routine'
; 0142 1
; 0143 1 GLOBAL ROUTINE MEN$FTMTbl_Init =
; 0144 1
; 0145 1 !**
; 0146 1 ! FUNCTIONAL DESCRIPTION:
; 0147 1 !
; 0148 1 !   Since the CRD MENU TEST control code is a loadable image,
; 0149 1 !   link-time resolved address pointers must have an offset added
; 0150 1 !   to them. This is because the address pointers are resolved
; 0151 1 !   at link time with reference to a zero base address. However,
; 0152 1 !   at run time the code will be loaded at an address starting at
; 0153 1 !   CRD$AL_CRD_Dispatch_Vectors. Therefore, for all tables with text
; 0154 1 !   address pointers, add an offset equal to
; 0155 1 !   the value represented by the address location
; 0156 1 !   CRD$AL_CRD_Dispatch_Vectors!
; 0157 1 !
; 0158 1 ! INPUT PARAMETERS
; 0159 1 !
; 0160 1 ! OUTPUT PARAMETERS
; 0161 1 !
; 0162 1 ! IMPLICIT INPUTS
; 0163 1 !
; 0164 1 ! EXPLICIT OUTPUTS
; 0165 1 !
; 0166 1 ! SIDE EFFECTS
; 0167 1 !
; 0168 1 !   FTMTbl_Init is specified True.
; 0169 1 !
; 0170 1 ! COMPLETION CODES
; 0171 1 !
; 0172 1 !   CRD$K_Success
; 0173 1 ! -

```



```

; 0174 2 BEGIN
; 0175 2   LOCAL
; 0176 2   Text_Ptr : REF VECTOR [, LONG],
; 0177 2   Index;
; 0178 2
; 0179 2   OWN
; 0180 2       FTMTbl_Init : BYTE INITIAL (BYTE(False));
; 0181 2       ! Flag location indicating whether
; 0182 2       ! Table Text Address pointers
; 0183 2       ! have been initialized with
; 0184 2       ! offset address values to account
; 0185 2       ! for the fact that the code
; 0186 2       ! is loaded at a dynamic address
; 0187 2       ! location.
; 0188 2       ! 1 or True  = Table Initialized
; 0189 2       ! 0 or False = Table not initialized
; 0190 2
; 0191 2       !*
; 0192 2       ! Perform initialization only once
; 0193 2       !-
; 0194 2
; 0195 3   IF (NOT .FTMTbl_Init)
; 0196 2   THEN
; 0197 3   BEGIN
; 0198 3       !*
; 0199 3       ! Initialize Text Address Pointers for the FUNCTIONAL TEST Menu Table
; 0200 3       !-
; 0201 3
; 0202 3       Index = -1;
; 0203 3
; 0204 3       WHILE ((Index = .Index + 1) LSS (MEN$GK_FTMTbl_Entries)) DO
; 0205 4       BEGIN
; 0206 4           Text_Ptr = MEN$GA_FTMTbl [.Index, FTMTbl$L_Entry_Text];
; 0207 4           ! Address of text pointer
; 0208 4           Text_Ptr [0] = .Text_Ptr [0] + CRD$AL_CRD_Dispatch_Vectors;
; 0209 4           ! Add offset
; 0210 3       END;
; 0211 3       FTMTbl_Init = True; ! Indicate that Init done
; 0212 2   END;
; 0213 2
; 0214 2       RETURN (CRD$K_Success);
; 0215 1 END;

```

```

.TITLE MENPROMPT CRD MENU - Menu Prompt Module
.IDENT \V01.1\

```

```

.PSECT WORK,NOEXE,2

```

```

00000 MEN$GT_OPERINPUT_BUFFER::
.BKLB 256
41 00100 MEN$GA_FTMTBL::
.BYTE 65 ;
01 00101 .BYTE 1 ;
00000000G 00102 .ADDRESS MEN$GT_FTMSEL_EXIT ;

```

```

42 00106 .BYTE 66 ;
04 00107 .BYTE 4 ;
00000000G 00108 .ADDRESS MEN$GT_FTMSEL_SYSTEM_HDWR ;
43 0010C .BYTE 67 ;
02 0010D .BYTE 2 ;
00000000G 0010E .ADDRESS MEN$GT_FTMSEL_PREP ;
44 00112 .BYTE 68 ;
03 00113 .BYTE 3 ;
00000000G 00114 .ADDRESS MEN$GT_FTMSEL_TEST ;
45 00118 .BYTE 69 ;
05 00119 .BYTE 5 ;
00000000G 0011A .ADDRESS MEN$GT_FTMSEL_FNCTST_ALL ;
00 0011E FTMTBL_INIT:
    .BYTE 0 ;
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

54 50 4D 4F 52 50 4E 45 4D 09 0000 P.AAA: .ASCII <9>\MENPROMPT\ ;
    3F 01 0000A P.AAB: .ASCII <1>\?\ ;
  
```

```

$MODULE= P.AAA
HDWRNAM_STRING_BUF= MEN$GT_OPERINPUT_BUFFER
T_PROMPT_DEFAULT= P.AAB
.EXTRN MEN$FUNCTEST_MENU
.EXTRN MEN$FTMTBL_INIT
.EXTRN MEN$TEST_MENU, MEN$PREPTBL_INIT
.EXTRN MEN$GET_TSTCLA_NAME
.EXTRN MEN$FNDDDB_TCL_SDN
.EXTRN MEN$FNDDDB_TCL, MEN$PRINT_DEVTSTPREP
.EXTRN MEN$PRINT_SYSTEM_HDWR
.EXTRN MEN$GT_FTMSEL_EXIT
.EXTRN MEN$GT_FTMSEL_SYSTEM_HDWR
.EXTRN MEN$GT_FTMSEL_PREP
.EXTRN MEN$GT_FTMSEL_TEST
.EXTRN MEN$GT_FTMSEL_FNCTST_ALL
.EXTRN CRD$AL_CRD_DISPATCH_VECTORS
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0004 00000 .ENTRY MEN$FTMTBL_INIT, Save R2 ; 0143
29 00000000' EF E8 00002 BLBS FTMTBL_INIT, 3$ ; 0195
50 01 CE 00009 MNEGL #1, INDEX ; 0202
16 11 0000C BRB 2$ ; 0204
51 50 06 C5 0000E 1$: MULL3 #6, INDEX, R1 ; 0206
52 00000000' EF41 9E 00012 MOVAB MEN$GA_FTMSEL+2(R1), TEXT_PTR ;
51 00000000G EF 9E 0001A MOVAB CRD$AL_CRD_DISPATCH_VECTORS, R1 ; 0208
62 51 C0 00021 ADDL2 R1, (TEXT_PTR) ;
50 D6 00024 2$: INCL INDEX ; 0204
05 50 D1 00026 CMPL INDEX, #5 ;
E3 19 00029 BLSS 1$ ;
00000000' EF 01 90 0002B MOVB #1, FTMTBL_INIT ; 0211
50 01 D0 00032 3$: MOVL #1, R0 ; 0214
04 00035 RET ; 0215
  
```

; Routine Size: 54 bytes, Routine Base: CODE + 0000

E 5
ZZ-ENSAB-2.0 FUNCTIONAL TEST MAIN MENU Table Initialization 19-Sep-1985 Fiche 7 Frame E5 Sequence 1292
MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746 Page 13
V01.1 FUNCTIONAL TEST MAIN MENU Table Initialization 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 (11)

```

: 0216 1 xSBTTL 'TEST MENU Table'
: 0217 1
: 0218 1 !+
: 0219 1 ! Contains information relevant to all selections available
: 0220 1 ! from the Test Menu.
: 0221 1 !-
: 0222 1
: 0223 1 GLOBAL
: 0224 1   MEN$GA_TMTbl : $MEN_TMTbl_ATTR
: 0225 1   INITIAL (
: 0226 1     BYTE (0), ! Selection Alpha. This location
: 0227 1     ! is dynamically loaded at runtime.
: 0228 1     ! 0 = Invalid Test Menu selection
: 0229 1     ! Alpha A-Z = Valid Test Menu selection
: 0230 1   BYTE (MEN$K_TstCla_CPU), ! CPU test class
: 0231 1
: 0232 1   BYTE (0),
: 0233 1   BYTE (MEN$K_TstCla_Memory), ! Memory test class
: 0234 1
: 0235 1   BYTE (0),
: 0236 1   BYTE (MEN$K_TstCla_Disk), ! Disk test class
: 0237 1
: 0238 1   BYTE (0),
: 0239 1   BYTE (MEN$K_TstCla_Tape), ! Tape test class
: 0240 1
: 0241 1   BYTE (0),
: 0242 1   BYTE (MEN$K_TstCla_Comm), ! Communication test class
: 0243 1
: 0244 1   BYTE (0),
: 0245 1   BYTE (MEN$K_TstCla_Real), ! Realtime test class
: 0246 1
: 0247 1   BYTE (0),
: 0248 1   BYTE (MEN$K_TstCla_Term), ! Terminal test class
: 0249 1
: 0250 1   BYTE (0),
: 0251 1   BYTE (MEN$K_TstCla_Printer), ! Printer test class
: 0252 1
: 0253 1   BYTE (0),
: 0254 1   BYTE (MEN$K_TstCla_Card), ! Card Reader test class
: 0255 1
: 0256 1   BYTE (0),
: 0257 1   BYTE (MEN$K_TstCla_IO_Adaptor), ! I/O Adaptor test class
: 0258 1
: 0259 1   BYTE (0),
: 0260 1   BYTE (MEN$K_TstCla_All) ! All test classes
: 0261 1 );

```

```

; 0262 1 xSBTTL 'DEVICE TEST PREPARATION Table '
; 0263 1
; 0264 1 !+
; 0265 1 ! The device test preparation table contains the codes and respective
; 0266 1 ! preparation text pointers describing the required hardware test preparation
; 0267 1 ! required before test is initiated on the hardware.
; 0268 1 ! Because the CRD MENU code is loadable it is necessary to invoke the
; 0269 1 ! Initialization routine associated with this table following loading
; 0270 1 ! and before the table is accessed (see MENTSTINI module).
; 0271 1 !-
; 0272 1
; 0273 1 GLOBAL
; 0274 1   MEN$GA_PrepTbl : $MEN_PrepTbl_ATTR
; 0275 1   INITIAL (
; 0276 1
; 0277 1   BYTE (MEN$K_DevTstPrep_Null), ! Device Test Prep Code
; 0278 1   LONG (MEN$GT_DevTstPrep_Null), ! Device Test Prep Text
; 0279 1
; 0280 1   BYTE (MEN$K_DevTstPrep_1), ! Device Test Prep Code
; 0281 1   LONG (MEN$GT_DevTstPrep_1), ! Device Test Prep Text
; 0282 1
; 0283 1   BYTE (MEN$K_DevTstPrep_2), ! Device Test Prep Code
; 0284 1   LONG (MEN$GT_DevTstPrep_2), ! Device Test Prep Text
; 0285 1
; 0286 1   BYTE (MEN$K_DevTstPrep_3), ! Device Test Prep Code
; 0287 1   LONG (MEN$GT_DevTstPrep_3), ! Device Test Prep Text
; 0288 1
; 0289 1   BYTE (MEN$K_DevTstPrep_4), ! Device Test Prep Code
; 0290 1   LONG (MEN$GT_DevTstPrep_4), ! Device Test Prep Text
; 0291 1
; 0292 1   BYTE (MEN$K_DevTstPrep_5), ! Device Test Prep Code
; 0293 1   LONG (MEN$GT_DevTstPrep_5), ! Device Test Prep Text
; 0294 1
; 0295 1   BYTE (MEN$K_DevTstPrep_6), ! Device Test Prep Code
; 0296 1   LONG (MEN$GT_DevTstPrep_6), ! Device Test Prep Text
; 0297 1
; 0298 1   BYTE (MEN$K_DevTstPrep_7), ! Device Test Prep Code
; 0299 1   LONG (MEN$GT_DevTstPrep_7), ! Device Test Prep Text
; 0300 1 );

```

```

: 0301 1 *SBTTL 'DEVICE TEST PREPARATION Table Initialization Routine'
: 0302 1
: 0303 1 GLOBAL ROUTINE MEN$PrepTbl_Init =
: 0304 1
: 0305 1 !*
: 0306 1 ! FUNCTIONAL DESCRIPTION:
: 0307 1 !
: 0308 1 !   Since the CRD MENU TEST control code is a loadable image,
: 0309 1 !   link-time resolved address pointers must have an offset added
: 0310 1 !   to them. This is because the address pointers are resolved
: 0311 1 !   at link time with reference to a zero base address. However,
: 0312 1 !   at run time the code will be loaded at an address starting at
: 0313 1 !   CRD$AL_CRD_Dispatch_Vectors. Therefore, for all tables with text
: 0314 1 !   address pointers, add an offset equal to
: 0315 1 !   the value represented by the address location
: 0316 1 !   CRD$AL_CRD_Dispatch_Vectors!
: 0317 1 !
: 0318 1 ! INPUT PARAMETERS
: 0319 1 !
: 0320 1 ! OUTPUT PARAMETERS
: 0321 1 !
: 0322 1 ! IMPLICIT INPUTS
: 0323 1 !
: 0324 1 ! EXPLICIT OUTPUTS
: 0325 1 !
: 0326 1 ! SIDE EFFECTS
: 0327 1 !
: 0328 1 !   PrepTbl_Init is specified True.
: 0329 1 !
: 0330 1 ! COMPLETION CODES
: 0331 1 !
: 0332 1 !   CRD$K_Success
: 0333 1 ! --

```

```

; 0334 2 BEGIN
; 0335 2   LOCAL
; 0336 2   Text_Ptr : REF VECTOR [, LONG],
; 0337 2   Index;
; 0338 2
; 0339 2   OWN
; 0340 2       PrepTbl_Init : BYTE INITIAL (BYTE(False));
; 0341 2       ! Flag location indicating whether
; 0342 2       ! Table Text Address pointers
; 0343 2       ! have been initialized with
; 0344 2       ! offset address values to account
; 0345 2       ! for the fact that the code
; 0346 2       ! is loaded at a dynamic address
; 0347 2       ! location.
; 0348 2       ! 1 or True  = Table Initialized
; 0349 2       ! 0 or False = Table not initialized
; 0350 2
; 0351 2   !+
; 0352 2   ! Perform initialization only once
; 0353 2   !-
; 0354 2
; 0355 3   IF (NOT .PrepTbl_Init)
; 0356 2   THEN
; 0357 3   BEGIN
; 0358 3   !+
; 0359 3   ! Initialize Text Address Pointers for the FUNCTIONAL TEST Menu Table
; 0360 3   !-
; 0361 3
; 0362 3   Index = -1;
; 0363 3
; 0364 3   WHILE ((Index = .Index + 1) LSS (MEN$GK_PrepTbl_Entries)) DO
; 0365 4   BEGIN
; 0366 4       Text_Ptr = MEN$GA_PrepTbl [.Index, PrepTbl$L_Entry_Text];
; 0367 4       ! Address of text pointer
; 0368 4       Text_Ptr [0] = .Text_Ptr [0] + CRD$AL_CRD_Dispatch_Vectors;
; 0369 4       ! Add offset
; 0370 3   END;
; 0371 3   PrepTbl_Init = True; ! Indicate that Init done
; 0372 2   END;
; 0373 2
; 0374 2   RETURN (CRD$K_Success);
; 0375 1 END;

```

.PSECT WORK,NOEXC,2

```

00 0011F .BLKB 1
00 00120 MEN$GA_TMTBL::
    .BYTE 0 ;
01 00121 .BYTE 1 ;
00 00122 .BYTE 0 ;
02 00123 .BYTE 2 ;
00 00124 .BYTE 0 ;
03 00125 .BYTE 3 ;

```

```

00 00126 .BYTE 0 ;
04 00127 .BYTE 4 ;
00 00128 .BYTE 0 ;
05 00129 .BYTE 5 ;
00 0012A .BYTE 0 ;
06 0012B .BYTE 6 ;
00 0012C .BYTE 0 ;
07 0012D .BYTE 7 ;
00 0012E .BYTE 0 ;
08 0012F .BYTE 8 ;
00 00130 .BYTE 0 ;
09 00131 .BYTE 9 ;
00 00132 .BYTE 0 ;
0A 00133 .BYTE 10 ;
00 00134 .BYTE 0 ;
0B 00135 .BYTE 11 ;
00 00136 .BLKB 2 ;
00 00138 MEN$GA_PREPTBL::
    .BYTE 0 ;
00000000G 00139 .ADDRESS MEN$GT_DEVTSTPREP_NULL ;
01 0013D .BYTE 1 ;
00000000G 0013E .ADDRESS MEN$GT_DEVTSTPREP_1 ;
02 00142 .BYTE 2 ;
00000000G 00143 .ADDRESS MEN$GT_DEVTSTPREP_2 ;
03 00147 .BYTE 3 ;
00000000G 00148 .ADDRESS MEN$GT_DEVTSTPREP_3 ;
04 0014C .BYTE 4 ;
00000000G 0014D .ADDRESS MEN$GT_DEVTSTPREP_4 ;
05 00151 .BYTE 5 ;
00000000G 00152 .ADDRESS MEN$GT_DEVTSTPREP_5 ;
06 00156 .BYTE 6 ;
00000000G 00157 .ADDRESS MEN$GT_DEVTSTPREP_6 ;
07 0015B .BYTE 7 ;
00000000G 0015C .ADDRESS MEN$GT_DEVTSTPREP_7 ;
00 00160 PREPTBL_INIT:
    .BYTE 0 ;

.EXTRN MEN$GT_DEVTSTPREP_NULL
.EXTRN MEN$GT_DEVTSTPREP_1
.EXTRN MEN$GT_DEVTSTPREP_2
.EXTRN MEN$GT_DEVTSTPREP_3
.EXTRN MEN$GT_DEVTSTPREP_4
.EXTRN MEN$GT_DEVTSTPREP_5
.EXTRN MEN$GT_DEVTSTPREP_6
.EXTRN MEN$GT_DEVTSTPREP_7

.PSECT CODE, NOWRT, SHR, PIC, 2

0004 00000 .ENTRY MEN$PREPTBL_INIT, Save R2 ; 0303
29 00000000' EF E8 00002 BLBS PREPTBL_INIT, 3$ ; 0355
50 01 CE 00009 MNEGL #1, INDEX ; 0362
16 11 0000C BRB 2$ ; 0364
51 50 05 C5 0000E 1$: MULL3 #5, INDEX, R1 ; 0366
52 00000000' EF 41 9E 00012 MOVAB MEN$GA_PREPTBL+1[R1], TEXT_PTR ;
51 00000000G EF 9E 0001A MOVAB CRD$AL_CRD_DISPATCH_VECTOR$5, R1 ; 0368
  
```



```

    62      51 C0 00021    ADDL2    R1, (TEXT_PTR)    ;
    50 D6 00024 2$:    INCL    INDEX    ; 0364
    08      50 D1 00026    CMPL    INDEX, #8    ;
    E3 19 00029    BLSS    1$    ;
00000000' EF    01 90 0002B    MOVB    #1, PREPTBL_INIT    ; 0371
    50    01 D0 00032 3$:    MOVL    #1, R0    ; 0374
    04 00035    RET    ; 0375
  
```

; Routine Size: 54 bytes, Routine Base: CODE + 0036

```

: 0376 1 *SBTTL 'FUNCTIONAL TEST MAIN MENU Routine'
: 0377 1
: 0378 1 GLOBAL ROUTINE MEN$FuncTest_Menu =
: 0379 1
: 0380 1 !**
: 0381 1 ! FUNCTIONAL DESCRIPTION:
: 0382 1 !
: 0383 1 !   The Functional Test Main Menu allows the operator to choose various
: 0384 1 !   activites associated with Functional Testing:
: 0385 1 !
: 0386 1 ! Exit CRD MENU TEST
: 0387 1 ! Print identified System Hardware
: 0388 1 ! Print hardware test preparation for supported hardware
: 0389 1 ! Invoke TEST MENU for selecting and testing supported hardware
: 0390 1 ! TEST ALL hardware
: 0391 1 !
: 0392 1 !   This Routine performs the following:
: 0393 1 !
: 0394 1 ! . Types the Functional Test Main Menu
: 0395 1 ! . Solicit operator input until valid selection is made
: 0396 1 ! . Determine course of action on the basis of valid selection
: 0397 1 !
: 0398 1 ! INPUT PARAMETERS
: 0399 1 !
: 0400 1 ! OUTPUT PARAMETERS
: 0401 1 !
: 0402 1 ! IMPLICIT INPUTS
: 0403 1 !
: 0404 1 ! CRD MENU TEST Initialization must have been performed (see MENTSTINI
: 0405 1 ! module).
: 0406 1 !
: 0407 1 ! EXPLICIT OUTPUTS
: 0408 1 !
: 0409 1 ! If 'Exit' selection is chosen CRD$STOP is called.
: 0410 1 !
: 0411 1 ! If any of the 'print' selections are chosen then the respective
: 0412 1 ! information is printed and Functional Test Menu is repeated.
: 0413 1 !
: 0414 1 ! If TEST MENU or TEST ALL selection is chosen and successfully completed
: 0415 1 ! then the Test Queue Table is available pointed to by MEN$GA_Test_Queue.
: 0416 1 ! The testing header is printed, MEN$GB_Test_In_Progress is
: 0417 1 ! specified True, and return is made to the caller.
: 0418 1 !
: 0419 1 ! SIDE EFFECTS
: 0420 1 !
: 0421 1 !
: 0422 1 ! COMPLETION CODES
: 0423 1 !
: 0424 1 ! CRD$K_FTMRet_Test Start Testing
: 0425 1 ! CRD$K_FTMRet_Failure Fatal Functional Test Menu Failure
: 0426 1 !
: 0427 1 ! --

```

```

: 0428 2 BEGIN
: 0429 2 LOCAL
: 0430 2   Entry_Ptr      : REF $MEN_FTMTbl_Entry_ATTR,
: 0431 2   FTM_Table_Index,
: 0432 2   Valid_Status,
: 0433 2   Valid_Alpha_Upper : VECTOR [CH$ALLOCATION (1)],
: 0434 2   Valid_Alpha_Lower : VECTOR [CH$ALLOCATION (1)];
: 0435 2
: 0436 2   !++
: 0437 2   !-----
: 0438 2   ! LOCAL ROUTINE:
: 0439 2   ! Type_Main_Menu_Selections:
: 0440 2   ! Types the Main Menu Selections.
: 0441 2   !-----
: 0442 2   !--
: 0443 2
: 0444 2   ROUTINE Type_Main_Menu_Selections : NOVALUE =
: 0445 3   BEGIN ! Routine Type_Main_Menu_Selections
: 0446 3   REGISTER
: 0447 3     FTM_Table_Index,
: 0448 3     Sel_Alpha_Ptr,
: 0449 3     Sel_Text_Ptr;
: 0450 3
: 0451 3   CRD$Disable_Ctrl_C (); ! Disable Control C's during menu timeout
: 0452 3
: 0453 3   $CRD_Message (New_Line, MEN$GT_FTMTtitle);
: 0454 3   ! Print the title
: 0455 3   FTM_Table_Index = -1; ! Initialize index
: 0456 3
: 0457 3   WHILE ((FTM_Table_Index = .FTM_Table_Index + 1) LSS (MEN$GK_FTMTbl_Entries)) DO
: 0458 4     BEGIN
: 0459 4       Sel_Alpha_Ptr = MEN$GA_FTMTbl [.FTM_Table_Index, FTMTbl$B_Entry_Alpha];
: 0460 4       Sel_Text_Ptr  = .MEN$GA_FTMTbl [.FTM_Table_Index, FTMTbl$L_Entry_Text];
: 0461 4
: P 0462 4       $CRD_Message (New_Line,
: P 0463 4       MEN$GT_FTMenu_Selection,
: P 0464 4       1, ! Length of selection choice Alpha
: P 0465 4       .Sel_Alpha_Ptr, ! Address of Alpha
: P 0466 4       .Sel_Text_Ptr ! Address of selection text ASCII
: 0467 4     );
: 0468 3     END; ! End of WHILE loop
: 0469 3
: 0470 3   $CRD_Message (New_Line, MEN$GT_FTM_Choice);
: 0471 3   ! Print operator directive
: 0472 3   CRD$Enable_Ctrl_C (); ! Enable Control C's again
: 0473 2   END; ! Routine Type_Main_Menu_Selections
  
```

```

.EXTRN CRD$DISABLE_CTRL_C
.EXTRN MEN$GT_FTMTITLE
.EXTRN CRD$GT_NEW_LINE_MESSAGE
.EXTRN CRD$PRINT, MEN$GT_FTMENU_SELECTION
.EXTRN MEN$GT_FTM_CHOICE
.EXTRN CRD$ENABLE_CTRL_C
  
```

```

OFFC 00000 TYPE MAIN MENU SELECTIONS:
WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0444
00000000G EF 16 00002 JSB CRD$DISABLE_CTRL_C ; 0451
00000000G EF 9F 00008 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0453
01 DD 0000E PUSHL #1 ;
1A DD 00010 PUSHL #26 ;
00000000G FF 03 FB 00012 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 00019 PUSHAB MEN$GT_FTM_TITLE ;
01 DD 0001F PUSHL #1 ;
1A DD 00021 PUSHL #26 ;
00000000G FF 03 FB 00023 CALLS #3, aCRD$PRINT ;
52 01 CE 0002A MNEGL #1, FTM_TABLE_INDEX ; 0455
3C 11 0002D BRB 2$ ; 0457
50 52 06 C5 0002F 1$: MULL3 #6, FTM_TABLE_INDEX, R0 ; 0459
53 00000000'EF40 9E 00033 MOVAB MEN$GA_FTM_TBL[R0], SEL_ALPHA_PTR ;
00000000'EF40 9F 0003B PUSHAB MEN$GA_FTM_TBL+2[R0] ; 0460
54 9E D0 00042 MOVL a(SP)+, SEL_TEXT_PTR ;
00000000G EF 9F 00045 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0467
01 DD 0004B PUSHL #1 ;
1A DD 0004D PUSHL #26 ;
00000000G FF 03 FB 0004F CALLS #3, aCRD$PRINT ;
18 BB 00056 PUSHR #^M<R3,R4> ;
01 DD 00058 PUSHL #1 ;
00000000G EF 9F 0005A PUSHAB MEN$GT_FTMENU_SELECTION ;
01 DD 00060 PUSHL #1 ;
1A DD 00062 PUSHL #26 ;
00000000G FF 06 FB 00064 CALLS #6, aCRD$PRINT ;
52 D6 0006B 2$: INCL FTM_TABLE_INDEX ; 0457
05 52 D1 0006D CMPL FTM_TABLE_INDEX, #5 ;
BD 19 00070 BLSS 1$ ;
00000000G EF 9F 00072 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0470
01 DD 00078 PUSHL #1 ;
1A DD 0007A PUSHL #26 ;
00000000G FF 03 FB 0007C CALLS #3, aCRD$PRINT ;
00000000G EF 9F 00083 PUSHAB MEN$GT_FTM_CHOICE ;
01 DD 00089 PUSHL #1 ;
1A DD 0008B PUSHL #26 ;
00000000G FF 03 FB 0008D CALLS #3, aCRD$PRINT ;
00000000G EF 16 00094 JSB CRD$ENABLE_CTRL_C ; 0472
04 0009A RET ; 0473
  
```

; Routine Size: 155 bytes, Routine Base: CODE + 006C

```

: 0474 2      !++
: 0475 2      !-----
: 0476 2      ! Start of MAIN ROUTINE:
: 0477 2      !-----
: 0478 2      !--
: 0479 2
: 0480 2      MEN$GB_FncTst_Init = True;  ! Must set this here so that correct ^C table will be used
: 0481 2
: 0482 2      !+
: 0483 2      ! Big Main Menu selection loop: Keep looping until the user selects a set of
: 0484 2      ! tests to execute. Then exit this procedure. The only other reason to exit
: 0485 2      ! this loop is if the user wishes to exit CRD Menu Test.
: 0486 2      !-
: 0487 2
: 0488 2      DO
: 0489 3      BEGIN
: 0490 3
: 0491 3      !+
: 0492 3      ! Prompt for operator input until a valid selection is made.
: 0493 3      !-
: 0494 3
: 0495 3      Valid_Status = False;
: 0496 3
: 0497 3      DO
: 0498 4      BEGIN
: 0499 4      !+
: 0500 4      ! Print the Menu Selections from the FUNCTIONAL TEST Menu Table.
: 0501 4      !-
: 0502 4
: 0503 4      Type_Main_Menu_Selections ();
: 0504 4
: 0505 4      !+
: 0506 4      ! Now prompt the user for a selection:
: 0507 4      !-
: 0508 4
: P 0509 5      IF ($MEN_ASKSTR (
: P 0510 5      Msg_Adr = MEN$GT_FTMPrompt,
: P 0511 5      Buf_Adr = MEN$GT_OperInput_Buffer,
: 0512 5      Def_Adr = T_Prompt_Default))
: 0513 4      THEN
: 0514 5      BEGIN
: 0515 5      !+
: 0516 5      ! If soft console terminal, clear screen before even looking
: 0517 5      ! at whether the input was valid or not.
: 0518 5      !-
: 0519 5      CRD$Screen_Pause (SCREEN$K_Clear_Screen);
: 0520 5
: 0521 5      !+
: 0522 5      ! Operator input must be a valid Functional Test Menu Table
: 0523 5      ! entry alpha (lower or uppercase)
: 0524 5      !-
: 0525 5
: 0526 5      FTM_Table_Index = -1;
: 0527 6      WHILE (
: 0528 6      ((FTM_Table_Index = .FTM_Table_Index + 1) LSS (MEN$GK_FTMTbl_Entries)) AND
  
```

```

: 0529 6 (NOT .Valid_Status))
: 0530 5 DO
: 0531 6 BEGIN
: 0532 6 Entry_Ptr = MEN$GA_FTMTbl [.FTM_Table_Index, FTMTbl$B_Entry_Alpha];
: 0533 6 Valid_Alpha_Upper = .Entry_Ptr [FTMTbl$B_Entry_Alpha];
: 0534 6 Valid_Alpha_Lower = .Valid_Alpha_Upper + 'XX'20';
: 0535 6
: 0536 6 Valid_Status =
: 0537 7 (CH$EQL (1, Valid_Alpha_Upper, .MEN$GT_OperInput_Buffer [0], MEN$GT_OperInput_Buffer [1]) OR
: 0538 6 CH$EQL (1, Valid_Alpha_Lower, .MEN$GT_OperInput_Buffer [0], MEN$GT_OperInput_Buffer [1]));
: 0539 5 END; ! WHILE loop
: 0540 4 END; ! IF statement
: 0541 4
: 0542 5 IF (NOT .Valid_Status)
: 0543 4 THEN
: 0544 4 !+
: 0545 4 ! If <CR/LF> or ^C was typed don't type message, just prompt again.
: 0546 4 ! Both of these operator inputs will load the operator buffer
: 0547 4 ! with a default.
: 0548 4 !-
: 0549 4
: 0550 5 IF NOT (CH$EQL (.MEN$GT_OperInput_Buffer [0], MEN$GT_OperInput_Buffer [1],
: 0551 5 .T_Prompt_Default [0], T_Prompt_Default [1]))
: 0552 4 THEN
: 0553 4 $CRD_Message (New_Line, MEN$GT_InvOperInput);
: 0554 4 END ! DO statement
: 0555 3 UNTIL (.Valid_Status); ! Repeat until valid
: 0556 3
: 0557 3 !+
: 0558 3 ! Now use the menu selection table entry chosen to decide what to do
: 0559 3 !-
: 0560 3
: 0561 3 SELECT (.Entry_Ptr [FTMTbl$B_Entry_FTMSEL]) OF
: 0562 3 SET
: 0563 3 [MEN$K_FTMSEL_Exit]:
: 0564 3 CRD$Stop (MENU$K_Exit_Operator_Stop);
: 0565 3
: 0566 3 [MEN$K_FTMSEL_System_Hdwr ]:
: 0567 3 MEN$Print_System_Hdwr ();
: 0568 3
: 0569 3 [MEN$K_FTMSEL_Prep]:
: 0570 3 MEN$Print_DevTstPrep ();
: 0571 3
: 0572 3 [MEN$K_FTMSEL_Test]:
: 0573 4 BEGIN
: 0574 4 !+
: 0575 4 ! Do the TEST MENU
: 0576 4 !-
: 0577 5 IF NOT (MEN$Test_Menu ())
: 0578 4 THEN
: 0579 4 RETURN (MEN$K_FTMRet_Failure);
: 0580 3 END;
: 0581 3
: 0582 3 [MEN$K_FTMSEL_FncTst_All]:
: 0583 3 !+

```

```

: 0584 3 ! Build Test Queue for testing all devices
: 0585 3 !-
: 0586 3 MEN$BldTstQ_FncTst_All ();
: 0587 3
: 0588 3 [MEN$K_FTMSeI_Test, MEN$K_FTMSeI_FncTst_All]:
: 0589 4 BEGIN
: 0590 4 !+
: 0591 4 ! Print preliminary messages before test
: 0592 4 !-
: 0593 4 MEN$Scratch_Media_Msg ();
: 0594 4 ! Type a warning message
: 0595 4 ! for all selected units that
: 0596 4 ! require scratch media
: 0597 4 $CRD_Print (MEN$GT_CtrLC_FncTst);
: 0598 4 ! Tell the operator how to interrupt
: 0599 4 $CRD_Message (New_Line, MEN$GT_FuncTest_Begin);
: 0600 4 ! Type the Func. Test Title
: 0601 4 MEN$Print_Runtime_Total ();
: 0602 4 MEN$GB_Test_In_Progress =True;
: 0603 4 ! Indicate that testing is now in progress
: 0604 5 IF (.CRD$GB_CRD_Debug)
: 0605 4 THEN
: 0606 4 MEN$Dump_TstQ_HST ();
: 0607 4
: 0608 4 RETURN (MEN$K_FTMRet_Test);
: 0609 3 END;
: 0610 3 TES; ! End of SELECT
: 0611 3
: 0612 3 END ! Main DO loop
: 0613 2 UNTIL (False); ! Loop forever
: 0614 2
: 0615 2 RETURN (CRD$K_Failure);
: 0616 1 END; ! Functional Test Menu Routine
  
```

```

.EXTRN MEN$GB_FNCTST_INIT
.EXTRN MEN$GT_FTMPROMPT
.EXTRN DS$BREAK, DS$ASKSTR
.EXTRN CRD$SCREEN_PAUSE
.EXTRN MEN$GT_INVOPERINPUT
.EXTRN CRD$STOP, MEN$BLDTSTQ_FNCTST_ALL
.EXTRN MEN$SCRATCH_MEDIA_MSG
.EXTRN MEN$GT_CTRLC_FNCTST
.EXTRN MEN$GT_FUNCTEST_BEGIN
.EXTRN MEN$PRINT_RUNTIME_TOTAL
.EXTRN MEN$GB_TEST_IN_PROGRESS
.EXTRN CRD$GB_CRD_DEBUG
.EXTRN MEN$DUMP_TSTQ_HST
  
```

```

01FC 00000 .ENTRY MEN$FUNCTEST_MENU, Save R2,R3,R4,R5,R6,R7,- ; 0378
R8
5E 08 C2 00002 SUBL2 #8, SP ;
00000000G EF 01 90 00005 MOVB #1, MEN$GB_FNCTST_INIT ; 0480
58 D4 0000C 1$: CLRL VALID_STATUS ; 0495
  
```

```
FF52 CF 00 FB 0000E 2$: CALLS #0, TYPE_MAIN_MENU_SELECTIONS ; 0503
00000000G 9F 00 FB 00013 CALLS #0, @DS$BREAK ; 0512
7E D4 0001A CLRL -(SP) ;
00000000' EF 9F 0001C PUSHAB T_PROMPT_DEFAULT ;
7E D4 00022 CLRL -(SP) ;
7E 48 8F 9A 00024 MOVZBL #72, -(SP) ;
00000000' EF 9F 00028 PUSHAB MEN$GT_OPERINPUT_BUFFER ;
00000000G EF 9F 0002E PUSHAB MEN$GT_FTM_PROMPT ;
00000000G 9F 06 FB 00034 CALLS #6, @DS$ASKSTR ;
52 50 D0 0003B MOVL R0, STATUS ;
00000000G 9F 00 FB 0003E CALLS #0, @DS$BREAK ;
5F 52 E9 00045 BLBC STATUS, 7$ ;
01 DD 00048 PUSHL #1 ; 0519
00000000G EF 01 FB 0004A CALLS #1, CRD$SCREEN_PAUSE ;
54 01 CE 00051 MNEGL #1, FTM_TABLE_INDEX ; 0526
47 11 00054 BRB 6$ ; 0537
50 54 06 C5 00056 3$: MULL3 #6, FTM_TABLE_INDEX, R0 ; 0532
57 00000000' EF 40 9E 0005A MOVAB MEN$GA_FTM_TBL[R0], ENTRY_PTR ;
6E 67 9A 00062 MOVZBL (ENTRY_PTR), VALID_ALPHA_UPPER ; 0533
04 AE 6E 20 C1 00065 ADDL3 #32, VALID_ALPHA_UPPER, VALID_ALPHA_LOWER ; 0534
50 00000000' EF 9A 0006A MOVZBL MEN$GT_OPERINPUT_BUFFER, R0 ; 0537
56 D4 00071 CLRL R6 ;
50 00 6E 01 2D 00073 CMPC5 #1, VALID_ALPHA_UPPER, #0, R0, - ;
00000000' EF 00078 MEN$GT_OPERINPUT_BUFFER+1 ;
02 12 0007D BNEQ 4$ ;
56 D6 0007F INCL R6 ;
50 00000000' EF 9A 00081 4$: MOVZBL MEN$GT_OPERINPUT_BUFFER, R0 ; 0538
55 D4 00088 CLRL R5 ;
50 00 04 AE 01 2D 0008A CMPC5 #1, VALID_ALPHA_LOWER, #0, R0, - ;
00000000' EF 00090 MEN$GT_OPERINPUT_BUFFER+1 ;
02 12 00095 BNEQ 5$ ;
55 D6 00097 INCL R5 ;
58 55 56 C9 00099 5$: BISL3 R6, R5, VALID_STATUS ;
54 D6 0009D 6$: INCL FTM_TABLE_INDEX ; 0528
05 54 D1 0009F CMPL FTM_TABLE_INDEX, #5 ;
03 18 000A2 BGEQ 7$ ;
AF 58 E9 000A4 BLBC VALID_STATUS, 3$ ; 0529
46 58 E8 000A7 7$: BLBS VALID_STATUS, 9$ ; 0542
51 00000000' EF 9A 000AA MOVZBL MEN$GT_OPERINPUT_BUFFER, R1 ; 0550
50 00000000' EF 9A 000B1 MOVZBL T_PROMPT_DEFAULT, R0 ; 0551
50 00 00000000' EF 51 2D 000B8 CMPC5 R1, MEN$GT_OPERINPUT_BUFFER+1, #0, R0, - ;
00000000' EF 000C1 T_PROMPT_DEFAULT+1 ;
22 13 000C6 BEQL 8$ ;
00000000G EF 9F 000C8 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0553
01 DD 000CE PUSHL #1 ;
1A DD 000D0 PUSHL #26 ;
00000000G FF 03 FB 000D2 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 000D9 PUSHAB MEN$GT_INVOPERINPUT ;
01 DD 000DF PUSHL #1 ;
1A DD 000E1 PUSHL #26 ;
00000000G FF 03 FB 000E3 CALLS #3, @CRD$PRINT ;
03 58 E8 000EA 8$: BLBS VALID_STATUS, 9$ ; 0555
FF1E 31 000ED BRW 2$ ;
52 01 A7 9A 000F0 9$: MOVZBL 1(ENTRY_PTR), R2 ; 0561
01 52 91 000F4 CMPB R2, #1 ; 0563
```



```

09 12 000F7 BNEQ 10$ ;
0B DD 000F9 PUSHL #11 ; 0564
00000000G EF 01 FB 000FB CALLS #1, CRD$STOP ;
04 52 91 00102 10$ CMPB R2, #4 ; 0566
07 12 00105 BNEQ 11$ ;
00000000V EF 00 FB 00107 CALLS #0, MEN$PRINT_SYSTEM_HDWR ; 0567
02 52 91 0010E 11$ CMPB R2, #2 ; 0569
07 12 00111 BNEQ 12$ ;
00000000V EF 00 FB 00113 CALLS #0, MEN$PRINT_DEVSTPREP ; 0570
03 52 91 0011A 12$ CMPB R2, #3 ; 0572
0E 12 0011D BNEQ 13$ ;
00000000V EF 00 FB 0011F CALLS #0, MEN$TEST_MENU ; 0577
04 50 E8 00126 BLBS R0, 13$ ;
50 04 D0 00129 MOVL #4, R0 ; 0579
04 0012C RET ;
05 52 91 0012D 13$ CMPB R2, #5 ; 0582
07 12 00130 BNEQ 14$ ;
00000000G EF 00 FB 00132 CALLS #0, MEN$BLDTSTQ_FNCTST_ALL ; 0586
03 52 91 00139 14$ CMPB R2, #3 ; 0588
08 13 0013C BEQL 15$ ;
05 52 91 0013E CMPB R2, #5 ;
03 13 00141 BEQL 15$ ;
FEC6 31 00143 BRW 1$ ;
00000000G EF 00 FB 00146 15$ CALLS #0, MEN$SCRATCH_MEDIA_MSG ; 0593
00000000G EF 9F 0014D PUSHAB MEN$GT_CTRLC_FNCTST ; 0597
01 DD 00153 PUSHL #1 ;
1A DD 00155 PUSHL #26 ;
00000000G FF 03 FB 00157 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 0015E PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0599
01 DD 00164 PUSHL #1 ;
1A DD 00166 PUSHL #26 ;
00000000G FF 03 FB 00168 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 0016F PUSHAB MEN$GT_FUNCST_BEGIN ;
01 DD 00175 PUSHL #1 ;
1A DD 00177 PUSHL #26 ;
00000000G FF 03 FB 00179 CALLS #3, @CRD$PRINT ;
00000000G EF 00 FB 00180 CALLS #0, MEN$PRINT_RUNTIME_TOTAL ; 0601
00000000G EF 01 90 00187 MOVB #1, MEN$GB_TEST_IN_PROGRESS ; 0602
07 00000000G EF E9 0018E BLBC CRD$GB_CRD_DEBUG, 16$ ; 0604
00000000G EF 00 FB 00195 CALLS #0, MEN$DUMP_TSTQ_HST ; 0606
50 03 D0 0019C 16$ MOVL #3, R0 ; 0608
04 0019F RET ; 0616

```

; Routine Size: 416 bytes, Routine Base: CODE + 0107

```
; 0617 1 xSBTTL 'TEST MENU Routine'
; 0618 1
; 0619 1 GLOBAL ROUTINE MEN$Test_Menu =
; 0620 1
; 0621 1 !*
; 0622 1 ! FUNCTIONAL DESCRIPTION:
; 0623 1 !
; 0624 1 ! The TEST MENU allows the operator to select and start testing of
; 0625 1 ! one or all supported system hardware:
; 0626 1 !
; 0627 1 ! . Determine valid TEST MENU Table entries
; 0628 1 !
; 0629 1 ! . Print the TEST MENU selections
; 0630 1 !
; 0631 1 ! . Solicit input and validate.
; 0632 1 !
; 0633 1 ! . Build Test Queue in preparation for testing
; 0634 1 !
; 0635 1 ! INPUT PARAMETERS
; 0636 1 !
; 0637 1 ! OUTPUT PARAMETERS
; 0638 1 !
; 0639 1 ! IMPLICIT INPUTS
; 0640 1 !
; 0641 1 ! EXPLICIT OUTPUTS
; 0642 1 !
; 0643 1 ! Test Queue Table pointed to by MEN$GA_Test_Queue
; 0644 1 !
; 0645 1 ! SIDE EFFECTS
; 0646 1 !
; 0647 1 ! COMPLETION CODES
; 0648 1 !
; 0649 1 ! CRD$K_Success Test Menu Routine Successful
; 0650 1 ! CRD$K_Failure Test Menu Routine Failure
; 0651 1 !
; 0652 1 ! -
```

```

: 0653 2 BEGIN
: 0654 2   LOCAL
: 0655 2   Device_Number,
: 0656 2   Entry_Ptr : REF $MEN_TMTbl_Entry_ATTR,
: 0657 2   DDB_Ptr   : REF Device_Data_Block_Structure;
: 0658 2
: 0659 2   REGISTER
: 0660 2   Valid_Status;
: 0661 2
: 0662 2   !++
: 0663 2   -----
: 0664 2   ! LOCAL ROUTINE:
: 0665 2   !   Type_Test_Menu_Selections:
: 0666 2   !   Types the Test Menu Selections.
: 0667 2   !-----
: 0668 2   !--
: 0669 2
: 0670 2   ROUTINE Type_Test_Menu_Selections : NOVALUE =
: 0671 3 BEGIN ! Routine Type_Test_Menu_Selections
: 0672 3 REGISTER
: 0673 3   PTable_Ptr : REF $DS_HPO_Decl (),
: 0674 3   SupBlk_Ptr : REF $MEN_SupBlk_Attr;
: 0675 3
: 0676 3 LOCAL
: 0677 3   DDB_Ptr   : REF Device_Data_Block_Structure,
: 0678 3   Entry_Ptr : REF $MEN_Tmtbl_Entry_Attr,
: 0679 3   SelAlpha_Index : VECTOR [CH$ALLOCATION (1)],
: 0680 3
: 0681 3   Last_TstCla,
: 0682 3   Tmtbl_Index,
: 0683 3   SelAlpha_Ptr,
: 0684 3   SelDevNumb,
: 0685 3   HdwName_Ptr,
: 0686 3   Dev_Name,
: 0687 3   TstCla_Name_Ptr,
: 0688 3   Screen_Counter;
: 0689 3
: 0690 3   !+
: 0691 3   ! Determine valid TEST MENU Table entries and load a selection Alpha for each.
: 0692 3   ! An entry is valid if at least one DDB is found to have a support block and the
: 0693 3   ! entry's test class code, or if the entry's test class code is 'Test All'.
: 0694 3   !-
: 0695 3
: 0696 3   SelAlpha_Index = (X'C'A'); ! Start the selection Alpha with 'A'.
: 0697 3   TMTbl_Index = -1; ! Initialize the index
: 0698 3
: 0699 3   WHILE ((TMTbl_Index = .TMTbl_Index + 1) LSS MEN$GK_TMTbl_Entries) DO
: 0700 4   BEGIN
: 0701 4   Entry_Ptr = MEN$GA_TMTbl [.TMTbl_Index, TMTbl$B_Entry_Alpha];
: 0702 4
: 0703 4   IF (MEN$FndDDB_Tcl ( XREF(.Entry_Ptr [TMTbl$B_Entry_TstCla]), DDB_Ptr)) OR
: 0704 5   (.Entry_Ptr [TMTbl$B_Entry_TstCla] EQL MEN$K_TstCla_All)
: 0705 4   THEN
: 0706 5   BEGIN
: 0707 5   Entry_Ptr [TMTbl $B_Entry_A pha] = .SelA pha_Index;

```

```
; 0708 5 SelAlpha_Index = .SelAlpha_Index + 1;
; 0709 5 END
; 0710 4 ELSE
; 0711 4 Entry_Ptr [TMTbl$B_Entry_Alpha] = 0;
; 0712 3 END; ! WHILE loop
; 0713 3
; 0714 3 !+
; 0715 3 ! Print the title
; 0716 3 !-
; 0717 3
; 0718 3 CRD$Disable_Ctrl_C (); ! Disable Control C's during Menu typeout
; 0719 3
; 0720 3 $CRD_Message ( New_Line, MEN$GT_TMTtitle);
; 0721 3
; 0722 3 Screen_Counter = 5; ! Init line number on which output will occur
; 0723 3
; 0724 3 !+
; 0725 3 ! Get a valid table entry and print menu selection text
; 0726 3 !-
; 0727 3
; 0728 3 Last_TstCla = MEN$K_TstCla_Null;
; 0729 3 ! Start with Null Test Class for this
; 0730 3 ! comparison check location
; 0731 3 TMTbl_Index = -1; ! Initialize the index again
; 0732 3
; 0733 3 WHILE ((TMTbl_Index = .TMTbl_Index +1) LSS MEN$GK_TMTbl_Entries) DO
; 0734 4 BEGIN
; 0735 4 Entry_Ptr = MEN$GA_TMTbl [.TMTbl_Index, TMTbl$B_Entry_Alpha];
; 0736 4
; 0737 5 IF (.Entry_Ptr [TMTbl$B_Entry_Alpha] NEQ 0)
; 0738 4 THEN ! If valid entry then print text
; 0739 5 BEGIN
; 0740 6 IF (.Last_TstCla NEQ .Entry_Ptr [TMTbl$B_Entry_TstCla])
; 0741 5 THEN
; 0742 6 BEGIN
; 0743 6 !+
; 0744 6 ! Before printing more, check for space on the screen
; 0745 6 !-
; 0746 7 IF (.Screen_Counter GEQ CRD$K_Numb_Screen_Lines)
; 0747 6 THEN
; 0748 7 BEGIN
; 0749 7 CRD$Screen_Pause (SCREEN$K_TM_Msg);
; 0750 7 $CRD_Message ( New_Line, MEN$GT_TMTtitle);
; 0751 7 Screen_Counter = 5; ! Title takes up 2 lines
; 0752 7 END
; 0753 6 ELSE
; 0754 7 BEGIN
; 0755 7 Screen_Counter = .Screen_Counter + 1;
; 0756 6 END;
; 0757 6 !+
; 0758 6 ! If new test class then leave extra space
; 0759 6 !
; 0760 6 $CRD_Message (New_Line, MEN$GT_Null);
; 0761 6
; 0762 5 END;
```

```

; 0763 5
; 0764 5 !+
; 0765 5 ! Print Test All menu selection text if 'Test All' test class
; 0766 5 !-
; 0767 5
; 0768 6 IF (.Entry_Ptr [TMTbl$B_Entry_TstCla] EQL MEN$K_TstCla_All)
; 0769 5 THEN
; 0770 6 BEGIN
; 0771 6   SelAlpha_Ptr = Entry_Ptr [TMTbl$B_Entry_Alpha];
; 0772 6   SelDevNumb = MEN$K_TMenu_TstAll_DevNumb;
; 0773 6
; 0774 6
; 0775 6 !+
; 0776 6 ! Before printing more, check for space on the screen
; 0777 6 !-
; 0778 7 IF (.Screen_Counter GEQ CRD$K_Numb_Screen_Lines)
; 0779 6 THEN
; 0780 7 BEGIN
; 0781 7   CRD$Screen_Pause (SCREEN$K_TM_Msg);
; 0782 7   $CRD_Message ( New_Line, MEN$GT_TMTtitle);
; 0783 7   Screen_Counter = 5; ! Title takes up 2 lines
; 0784 7 END
; 0785 6 ELSE
; 0786 7 BEGIN
; 0787 7   Screen_Counter = .Screen_Counter + 1;
; 0788 6 END;
; 0789 6
; P 0790 6 $CRD_Message (New_Line,
; P 0791 6   MEN$GT_TMenu_TstAll,
; P 0792 6   1, ! Alpha size
; P 0793 6   .SelAlpha_Ptr, ! Alpha address
; P 0794 6   .SelDevNumb ! Select Device Number
; 0795 6 );
; 0796 6 END ! IF statement
; 0797 5 ELSE
; 0798 6 BEGIN
; 0799 6 !+
; 0800 6 ! If not 'Test All' then:
; 0801 6 ! Search the DDB Database for all supported devices of the test class and
; 0802 6 ! if device is found, print menu selection text.
; 0803 6 !-
; 0804 6
; 0805 6 DDB_Ptr = MEN$GA_DDB_Head;
; 0806 6 WHILE ((DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink]) NEQ MEN$GA_DDB_Head) DO
; 0807 6   IF ((SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr]) NEQ 0) THEN
; 0808 7     IF (CH$EQL (1, Entry_Ptr [TMTbl$B_Entry_TstCla],
; 0809 7       1, SupBlk_Ptr [SupBlk$B_Test_Class]))
; 0810 6     THEN
; 0811 7       BEGIN
; 0812 7         SelAlpha_Ptr = Entry_Ptr [TMTbl$B_Entry_Alpha];
; 0813 7         SelDevNumb = .DDB_Ptr [CRD$K_DDB_Menu_Device_Numb];
; 0814 7         Hdw Name_Ptr = SupBlk_Ptr [SupBlk$T_Device Name];
; 0815 7         MEN$Get_TstCla_Name (
; 0816 7         xREF(.Entry_Ptr [TMTbl$B_Entry_TstCla]),
; 0817 7         TstCla_Name_Ptr);

```

```

; 0818 7 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
; 0819 7 Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
; 0820 7
; 0821 7 !+
; 0822 7 ! Before printing more, check for space on the screen
; 0823 7 !-
; 0824 8 IF (.Screen_Counter GEQ CRD$K_Numb_Screen_Lines)
; 0825 7 THEN
; 0826 8 BEGIN
; 0827 8 CRD$Screen_Pause (SCREEN$K_TM_Msg);
; 0828 8 $CRD_Message ( New_Line, MEN$GT_TMTtitle);
; 0829 8 Screen_Counter = 5; ! Title takes up 2 lines
; 0830 8 END
; 0831 7 ELSE
; 0832 8 BEGIN
; 0833 8 Screen_Counter = .Screen_Counter + 1;
; 0834 7 END;
; 0835 7
; P 0836 7 $CRD_Message
; P 0837 7 (
; P 0838 7 New_Line,
; P 0839 7 MEN$GT_TMenu_Selection,
; P 0840 7 1, ! Alpha size
; P 0841 7 .SelAlpha_Ptr, ! Alpha address
; P 0842 7 .SelDevNumb, ! Select Device Number
; P 0843 7 .Hdwr_Name_Ptr, ! Hardware Name ASCII Address
; P 0844 7 .TstCla_Name_Ptr, ! Test Class Name ASCII Address
; P 0845 7 .Dev_Name ! Device name from Ptable
; 0846 7 );
; 0847 6 END; ! WHILE ... IF ... IF ... BEGIN statements
; 0848 5 END; ! Not the 'Test All' class IF statement
; 0849 4 END; ! Valid entry
; 0850 3 END; ! While-Do Loop
; 0851 3
; 0852 3 $CRD_Message (New_Line, MEN$GT_TM_Choice);
; 0853 3 ! Print operator directive
; 0854 3 CRD$Enable_Ctrl_C (); ! Enable Control C's again
; 0855 2 END; ! Routine Type_Test_Menu_Selections
    
```

```

.EXTRN MEN$GT_TMTITLE, MEN$GT_NULL
.EXTRN MEN$GT_TMENU_TSTALL
.EXTRN MEN$GA_DDB_HEAD
.EXTRN CRD$GET_DEVICE_NAME
.EXTRN MEN$GT_TMENU_SELECTION
.EXTRN MEN$GT_TM_CHOICE
    
```

```

OFFC 0000 TYPE TEST MENU SELECTIONS:
WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0670
5E 14 C2 00002 SUBL2 #20, SP ;
52 41 8F 9A 00005 MOVZBL #65, SELALPHA_INDEX ; 0696
04 AE 01 CE 00009 MNEGL #1, TMTBL_INDEX ; 0697
39 11 0000D BRB 4$ ; 0699
50 04 AE D0 0000F 1$: MOVL TMTBL_INDEX, R0 ; 0701
    
```

```

    6E 00000000'EF40 3E 00013 MOVAW MEN$GA_TMTBL[R0], ENTRY_PTR ;
OC AE 9F 0001B PUSHAB DDB_PTR ; 0703
  50 04 AE 01 C1 0001E ADDL3 #1, ENTRY_PTR, R0 ;
OC AE 60 9A 00023 MOVZBL (R0), 12(SP) ;
OC AE 9F 00027 PUSHAB 12(SP) ;
00000000V EF 02 FB 0002A CALLS #2, MEN$FNDDDB_TCL ;
  09 50 E8 00031 BLBS R0, 2$ ;
  50 6E 01 C1 00034 ADDL3 #1, ENTRY_PTR, R0 ; 0704
  0B 60 91 00038 CMPB (R0), #11 ;
  08 12 0003B BNEQ 3$ ;
00 BE 52 90 0003D 2$: MOVB SELALPHA_INDEX, @ENTRY_PTR ; 0707
  52 D6 00041 INCL SELALPHA_INDEX ; 0708
  03 11 00043 BRB 4$ ; 0703
00 BE 94 00045 3$: CLRB @ENTRY_PTR ; 0711
04 AE D6 00048 4$: INCL TMTBL_INDEX ; 0699
  0B 04 AE D1 0004B CMPL TMTBL_INDEX, #11 ;
  BE 19 0004F BLSS 1$ ;
00000000G EF 16 00051 JSB CRD$DISABLE_CTRL_C ; 0718
00000000G EF 9F 00057 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0720
  01 DD 0005D PUSHL #1 ;
  1A DD 0005F PUSHL #26 ;
00000000G FF 03 FB 00061 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 00068 PUSHAB MEN$GT_TMTITLE ;
  01 DD 0006E PUSHL #1 ;
  1A DD 00070 PUSHL #26 ;
00000000G FF 03 FB 00072 CALLS #3, @CRD$PRINT ;
  56 05 D0 00079 MOVL #5, SCREEN_COUNTER ; 0722
  5A D4 0007C CLRL LAST_TSTCLA ; 0728
04 AE 01 CE 0007E MNEGL #1, TMTBL_INDEX ; 0731
  01BC 31 00082 BRW 19$ ; 0733
  50 04 AE D0 00085 5$: MOVL TMTBL_INDEX, R0 ; 0735
  6E 00000000'EF40 3E 00089 MOVAW MEN$GA_TMTBL[R0], ENTRY_PTR ;
00 BE 95 00091 TSTB @ENTRY_PTR ; 0737
  03 12 00094 BNEQ 6$ ;
  01A8 31 00096 BRW 19$ ;
  50 6E 01 C1 00099 6$: ADDL3 #1, ENTRY_PTR, R0 ; 0740
SA 59 13 000A2 BEQL 9$ ;
  16 56 D1 000A4 CMPL SCREEN_COUNTER, #22 ; 0746
  30 19 000A7 BLSS 7$ ;
  05 DD 000A9 PUSHL #5 ; 0749
00000000G EF 01 FB 000AB CALLS #1, CRD$SCREEN_PAUSE ;
00000000G EF 9F 000B2 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0750
  01 DD 000B8 PUSHL #1 ;
  1A DD 000BA PUSHL #26 ;
00000000G FF 03 FB 000BC CALLS #3, @CRD$PRINT ;
00000000G EF 9F 000C3 PUSHAB MEN$GT_TMTITLE ;
  01 DD 000C9 PUSHL #1 ;
  1A DD 000CB PUSHL #26 ;
00000000G FF 03 FB 000CD CALLS #3, @CRD$PRINT ;
  56 05 D0 000D4 MOVL #5, SCREEN_COUNTER ; 0751
  02 11 000D7 BRB 8$ ; 0746
  56 D6 000D9 7$: INCL SCREEN_COUNTER ; 0755
00000000G EF 9F 000DB 8$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0760
  01 DD 000E1 PUSHL #1 ;

```

```

1A DD 000E3    PUSHL    #26
00000000G FF 03 FB 000E5    CALLS    #3, aCRD$PRINT
00000000G EF 9F 000EC    PUSHAB   MEN$GT_NULL
01 DD 000F2    PUSHL    #1
1A DD 000F4    PUSHL    #26
00000000G FF 03 FB 000F6    CALLS    #3, aCRD$PRINT
50      6E 01 C1 000FD 9$: ADDL3    #1, ENTRY_PTR, R0 ; 0768
0B      60 91 00101    CMPB      (R0), #11
68 12 00104    BNEQ      12$
58      6E D0 00106    MOVL      ENTRY_PTR, SELALPHA_PTR ; 0771
57      01 D0 00109    MOVL      #1, SELDEVNUMB ; 0772
16      56 D1 0010C    CMPL      SCREEN_COUNTER, #22 ; 0778
30 19 0010F    BLSS      10$
05 DD 00111    PUSHL    #5 ; 0781
00000000G EF 01 FB 00113    CALLS    #1, CRD$SCREEN_PAUSE
00000000G EF 9F 0011A    PUSHAB   CRD$GT_NEW_LINE_MESSAGE ; 0782
01 DD 00120    PUSHL    #1
1A DD 00122    PUSHL    #26
00000000G FF 03 FB 00124    CALLS    #3, aCRD$PRINT
00000000G EF 9F 0012B    PUSHAB   MEN$GT_TMTITLE
01 DD 00131    PUSHL    #1
1A DD 00133    PUSHL    #26
00000000G FF 03 FB 00135    CALLS    #3, aCRD$PRINT
56      05 D0 0013C    MOVL      #5, SCREEN_COUNTER ; 0783
02 11 0013F    BRB       11$ ; 0778
56 D6 00141 10$: INCL      SCREEN_COUNTER ; 0787
00000000G EF 9F 00143 11$: PUSHAB   CRD$GT_NEW_LINE_MESSAGE ; 0795
01 DD 00149    PUSHL    #1
1A DD 0014B    PUSHL    #26
00000000G FF 03 FB 0014D    CALLS    #3, aCRD$PRINT
57 DD 00154    PUSHL    SELDEVNUMB
58 DD 00156    PUSHL    SELALPHA_PTR
01 DD 00158    PUSHL    #1
00000000G EF 9F 0015A    PUSHAB   MEN$GT_TMENU_TSTALL
01 DD 00160    PUSHL    #1
1A DD 00162    PUSHL    #26
00000000G FF 06 FB 00164    CALLS    #6, aCRD$PRINT
00D3 31 0016B    BRW       19$ ; 0768
OC AE 00000000G EF 9E 0016E 12$: MOVAB   MEN$GA_DDB_HEAD, DDB_PTR ; 0805
55 OC AE D0 00176    MOVL      DDB_PTR, R5 ; 0806
00B1 31 0017A    BRW       18$
55 OC AE D0 0017D 13$: MOVL      DDB_PTR, R5 ; 0807
53 20 A5 D0 00181    MOVL      32(R5), SUPBLK_PTR
03 12 00185    BNEQ      14$
00A4 31 00187    BRW       18$
50      6E 01 C1 0018A 14$: ADDL3    #1, ENTRY_PTR, R0 ; 0809
11 A3      60 91 0018E    CMPB      (R0), 17(SUPBLK_PTR)
03 13 00192    BEQL      15$
0097 31 00194    BRW       18$
58      6E D0 00197 15$: MOVL      ENTRY_PTR, SELALPHA_PTR ; 0812
57 1C A5 D0 0019A    MOVL      28(R5), SELDEVNUMB ; 0813
54 04 A3 9E 0019E    MOVAB      4(R3), HDWR_NAME_PTR ; 0814
10 AE 9F 001A2    PUSHAB   TSTCLA_NAME_PTR ; 0815
50 04 AE 01 C1 001A5    ADDL3    #1, ENTRY_PTR, R0 ; 0816
OC AE      60 9A 001AA    MOVZBL   (R0), 12(SP)

```



```
0C AE 9F 001AE PUSHAB 12(SP) ;
00000000V EF 02 FB 001B1 CALLS #2, MEN$GET_TSTCLA_NAME ;
52 08 A5 D0 001B8 MOVL 8(R5), PTABLE_PTR ; 0818
52 DD 001BC PUSHL PTABLE_PTR ; 0819
00000000G EF 01 FB 001BE CALLS #1, CRD$GET_DEVICE_NAME ;
59 50 D0 001C5 MOVL R0, DEV_NAME ;
16 56 D1 001C8 CMPL SCREEN_COUNTER, #22 ; 0824
30 19 001CB BLSS 16$ ;
05 DD 001CD PUSHL #5 ; 0827
00000000G EF 01 FB 001CF CALLS #1, CRD$SCREEN_PAUSE ;
00000000G EF 9F 001D6 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0828
01 DD 001DC PUSHL #1 ;
1A DD 001DE PUSHL #26 ;
00000000G FF 03 FB 001E0 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 001E7 PUSHAB MEN$GT_TMTITLE ;
01 DD 001ED PUSHL #1 ;
1A DD 001EF PUSHL #26 ;
00000000G FF 03 FB 001F1 CALLS #3, aCRD$PRINT ;
56 05 D0 001F8 MOVL #5, SCREEN_COUNTER ; 0829
02 11 001FB BRB 17$ ; 0824
56 D6 001FD 16$: INCL SCREEN_COUNTER ; 0833
00000000G EF 9F 001FF 17$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0846
01 DD 00205 PUSHL #1 ;
1A DD 00207 PUSHL #26 ;
00000000G FF 03 FB 00209 CALLS #3, aCRD$PRINT ;
59 DD 00210 PUSHL DEV_NAME ;
14 AE DD 00212 PUSHL TSTCLA_NAME_PTR ;
54 DD 00215 PUSHL HDWR_NAME_PTR ;
57 DD 00217 PUSHL SELDEVNUMB ;
58 DD 00219 PUSHL SELALPHA_PTR ;
01 DD 0021B PUSHL #1 ;
00000000G EF 9F 0021D PUSHAB MEN$GT_TMENU_SELECTION ;
01 DD 00223 PUSHL #1 ;
1A DD 00225 PUSHL #26 ;
00000000G FF 09 FB 00227 CALLS #9, aCRD$PRINT ;
0C AE 65 D0 0022E 18$: MOVL (R5), DDB_PTR ; 0806
50 00000000G EF 9E 00232 MOVAB MEN$GA_DDB_HEAD, R0 ;
50 65 D1 00239 CMPL (R5), R0 ;
03 13 0023C BEQL 19$ ;
FF3C 31 0023E BRW 13$ ;
04 AE D6 00241 19$: INCL TMTBL_INDEX ; 0733
0B 04 AE D1 00244 CMPL TMTBL_INDEX, #11 ;
03 18 00248 BGEQ 20$ ;
FE38 31 0024A BRW 5$ ;
00000000G EF 9F 0024D 20$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0852
01 DD 00253 PUSHL #1 ;
1A DD 00255 PUSHL #26 ;
00000000G FF 03 FB 00257 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 0025E PUSHAB MEN$GT_TM_CHOICE ;
01 DD 00264 PUSHL #1 ;
1A DD 00266 PUSHL #26 ;
00000000G FF 03 FB 00268 CALLS #3, aCRD$PRINT ;
00000000G EF 16 0026F JSB CRD$ENABLE_CTRL_C ; 0854
04 00275 RET ; 0855
```

ZZ-ENSAB-2.0 TEST MENU Routine
MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746
V01.1 TEST MENU Routine 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 (20)

; Routine Size: 630 bytes, Routine Base: CODE + 02A7

Sequence 1315

B 7

19-Sep-1985

Fiche 7

Frame B7

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```

: 0856 2 |**
: 0857 2 |-----
: 0858 2 | LOCAL ROUTINE:
: 0859 2 |
: 0860 2 | TMenu_OpInp_Chk: Validate the test menu operator input.
: 0861 2 |
: 0862 2 | INPUT PARAMETERS:
: 0863 2 |
: 0864 2 | I_Buffer: Address of ASCIC
: 0865 2 |
: 0866 2 | OUTPUT PARAMETERS:
: 0867 2 |
: 0868 2 | I_Entry: Address to return address pointer of selected
: 0869 2 | entry in TEST MENU Table
: 0870 2 | I_Number: Address of longword to return decimal device number
: 0871 2 | specified by operator
: 0872 2 |
: 0873 2 | COMPLETION CODES:
: 0874 2 |
: 0875 2 | CRD$K_Success: Operator input valid
: 0876 2 | CRD$K_Failure: Operator input invalid
: 0877 2 |-----
: 0878 2

```

```
: 0879 2
: 0880 2 ROUTINE TMenu_OpInp_Chk (I_Buffer, I_Entry, I_Number) =
: 0881 3 BEGIN
: 0882 3 LITERAL
: 0883 3 Numb_Buf_Sz = 20;
: 0884 3
: 0885 3 LOCAL
: 0886 3 Input_End,
: 0887 3 Numb_Buf : VECTOR (Numb_Buf_Sz, BYTE),
: 0888 3 Entry_Ptr : REF $MEN_TMTbl_Entry_ATTR;
: 0889 3
: 0890 3 REGISTER
: 0891 3 Buf_Ptr,
: 0892 3 Input_Alpha,
: 0893 3 Move_Length,
: 0894 3 Numb_Buf_Ptr,
: 0895 3 Numb_Sz,
: 0896 3 Valid_Alpha_Status,
: 0897 3 Valid_Alpha_Upper,
: 0898 3 Valid_Alpha_Lower,
: 0899 3 TMTbl_Index;
: 0900 3
: 0901 3 BIND
: 0902 3 Buffer = .I_Buffer : $MEN_OperInput_Buffer_ATTR,
: 0903 3 Entry = .I_Entry,
: 0904 3 Number = .I_Number;
: 0905 3
: 0906 3 !+
: 0907 3 ! Separate the Alpha and Numeric operator input fields
: 0908 3 !-
: 0909 3
: 0910 4 IF (.Buffer [0] NEQ 0)
: 0911 3 THEN
: 0912 4 BEGIN
: 0913 4 Input_End = Buffer [1] + .Buffer [0];
: 0914 4 Buf_Ptr = Buffer [1];
: 0915 4 Input_Alpha = CH$RCHAR_A (Buf_Ptr);
: 0916 4 Move_Length = .Input_End - .Buf_Ptr;
: 0917 4
: 0918 4 Move_Length = MINU (.Move_Length, Numb_Buf_Sz);
: 0919 4
: 0920 4 Numb_Buf_Ptr = CH$MOVE (.Move_Length, .Buf_Ptr, Numb_Buf);
: 0921 4 Numb_Sz = .Numb_Buf_Ptr - Numb_Buf;
: 0922 4 END
: 0923 3 ELSE
: 0924 3 RETURN (CRD$K_Failure);
: 0925 3
: 0926 3 !+
: 0927 3 ! Now check that the Alpha character field
: 0928 3 ! represents an entry in the TEST MENU Table.
: 0929 3 !-
: 0930 3
: 0931 3 TMTbl_Index = -1;
: 0932 3 Valid_Alpha_Status = False;
: 0933 3
```

```

; 0934 3 WHILE (((TMTbl_Index = .TMTbl_Index + 1) LSS MEN$GK_TMTbl_Entries) AND (NOT .Valid_Alpha_Status)) DO
; 0935 4 BEGIN
; 0936 4 Entry_Ptr = MEN$GA_TMTbl [.TMTbl_Index, TMTbl$B_Entry_Alpha];
; 0937 4 Valid_Alpha_Upper = .MEN$GA_TMTbl [.TMTbl_Index, TMTbl$B_Entry_Alpha];
; 0938 4 Valid_Alpha_Lower = .Valid_alpha_Upper + x'20';
; 0939 4
; 0940 4 IF CH$EQL ( 1, Valid_Alpha_Upper, 1, Input_Alpha) OR
; 0941 4 CH$EQL ( 1, Valid_Alpha_Lower, 1, Input_Alpha)
; 0942 4 THEN
; 0943 5 BEGIN
; 0944 5 Entry = .Entry_Ptr;
; 0945 5 Valid_Alpha_Status = True;
; 0946 4 END;
; 0947 3 END; ! WHILE ... DO ...
; 0948 3
; 0949 4 IF (NOT .Valid_Alpha_Status)
; 0950 3 THEN
; 0951 3 RETURN (CRD$K_Failure); ! Return the table entry
; 0952 3
; 0953 3 !+
; 0954 3 ! Now check that each ASCII character in the numeric field is a numeric
; 0955 3 ! between 0 and 9.
; 0956 3 !-
; 0957 3
; 0958 3 Numb_Buf_Ptr = Numb_Buf - 1;
; 0959 3
; 0960 3 WHILE ((Numb_Buf_Ptr = CH$PLUS (.Numb_Buf_Ptr, 1)) LSS (Numb_Buf + .Numb_Sz)) DO
; 0961 4 BEGIN
; 0962 4 IF (CH$RCHAR (.Numb_Buf_Ptr) LSS x'0') OR
; 0963 5 (CH$RCHAR (.Numb_Buf_Ptr) GTR x'9')
; 0964 4 THEN
; 0965 4 RETURN (CRD$K_Failure);
; 0966 3 END;
; 0967 3
; 0968 3 !+
; 0969 3 ! Convert the ASCII representation of the number to a decimal
; 0970 3 ! and return the decimal device number
; 0971 3 !-
; 0972 3
; 0973 3 MEN$Scan_Numeric_ASC_D (.Numb_Sz, Numb_Buf, .Number);
; 0974 3
; 0975 3 RETURN (CRD$K_Success);
; 0976 2 END; Routine TMenu_OpInp_Chk

```

.EXTRN MEN\$SCAN_NUMERIC_ASC_D

```

00FC 00000 TMENU_OPINP_CHK:
WORD Save R2,R3,R4,R5,R6,R7 ; 0880
SE 14 C2 00002 SUBL2 #20, SP
04 BC 95 00005 TSTB aI_BUFFER ; 0910
03 12 00008 BNEQ 1$ ;
009A 31 0000A BRW 9$ ;
51 04 BC 9A 0000D 1$: MOVZBL aI_BUFFER, R1 ; 0913

```

```

51 04 AC C0 00011 ADDL2 I_BUFFER, R1 ;
51 D6 00015 INCL INPUT_END ;
50 04 AC 01 C1 00017 ADDL3 #1, I_BUFFER, BUF_PTR ; 0914
56 80 9A 0001C MOVZBL (BUF_PTR)+, INPUT_ALPHA ; 0915
51 50 C2 0001F SUBL2 BUF_PTR, MOVE_LENGTH ; 0916
52 51 D0 00022 MOVL MOVE_LENGTH, R2 ; 0918
14 52 D1 00025 CMPL R2, #20 ;
03 1B 00028 BLEQU 2$ ;
52 14 D0 0002A MOVL #20, R2 ;
51 52 D0 0002D 2$: MOVL R2, MOVE_LENGTH ;
6E 60 51 28 00030 MOVCL3 MOVE_LENGTH, (BUF_PTR), NUMB_BUF ; 0920
50 53 D0 00034 MOVL R3, NUMB_BUF_PTR ;
51 6E 9E 00037 MOVAB NUMB_BUF, R1 ; 0921
51 50 51 C3 0003A SUBL3 R1, NUMB_BUF_PTR, NUMB_SZ ;
55 01 CE 0003E MNEGL #1, TMTBL_INDEX ; 0931
52 D4 00041 CLRL VALID_ALPHA_STATUS ; 0932
27 11 00043 BRB 5$ ; 0940
57 00000000'EF45 3E 00045 3$: MOVAB MEN$GA_TMTBL[TMTBL_INDEX], ENTRY_PTR ; 0936
00000000'EF45 3F 0004D PUSHAB MEN$GA_TMTBL[TMTBL_INDEX] ; 0937
53 9E 9A 00054 MOVZBL @ (SP)+, VALID_ALPHA_UPPER ;
54 20 A3 9E 00057 MOVAB 32(R3), VALID_ALPHA_LOWER ; 0938
56 53 91 0005B CMPB VALID_ALPHA_UPPER, INPUT_ALPHA ; 0940
05 13 0005E BEQL 4$ ;
56 54 91 00060 CMPB VALID_ALPHA_LOWER, INPUT_ALPHA ; 0941
07 12 00063 BNEQ 5$ ;
08 BC 57 D0 00065 4$: MOVL ENTRY_PTR, @I_ENTRY ; 0944
52 01 D0 00069 MOVL #1, VALID_ALPHA_STATUS ; 0945
55 D6 0006C 5$: INCL TMTBL_INDEX ; 0934
08 55 D1 0006E CMPL TMTBL_INDEX, #11 ;
03 18 00071 BGEQ 6$ ;
CF 52 E9 00073 BLBC VALID_ALPHA_STATUS, 3$ ;
2E 52 E9 00076 6$: BLBC VALID_ALPHA_STATUS, 9$ ; 0949
50 FF AE 9E 00079 MOVAB NUMB_BUF-1, NUMB_BUF_PTR ; 0958
52 51 5E C1 0007D ADDL3 SP, NUMB_SZ, R2 ; 0960
0A 11 00081 BRB 8$ ;
30 60 91 00083 7$: CMPB (NUMB_BUF_PTR), #48 ; 0962
1F 1F 00086 BLSSU 9$ ;
39 60 91 00088 CMPB (NUMB_BUF_PTR), #57 ; 0963
1A 1A 0008B BGTRU 9$ ;
50 D6 0008D 8$: INCL NUMB_BUF_PTR ; 0960
52 50 D1 0008F CMPL NUMB_BUF_PTR, R2 ;
EF 19 00092 BLSS 7$ ;
0C AC DD 00094 PUSHL I_NUMBER ; 0973
04 AE 9F 00097 PUSHAB NUMB_BUF ;
51 DD 0009A PUSHL NUMB_SZ ;
00000000G EF 03 FB 0009C CALLS #3, MEN$SCAN_NUMERIC_ASC_D ;
50 01 D0 000A3 MOVL #1, R0 ; 0975
04 000A6 RET ;
50 D4 000A7 9$: CLRL R0 ; 0976
04 000A9 RET ;

```

; Routine Size: 170 bytes, Routine Base: CODE + 051D

```

: 0977 2
: 0978 2      !+
: 0979 2      !-----
: 0980 2      ! MAIN ROUTINE:
: 0981 2      ! MEN$Test_Menu
: 0982 2      !   Print the Test Menu, get a response from the operator, and validate
: 0983 2      !   the response.
: 0984 2      !-----
: 0985 2      !--
: 0986 2
: 0987 2      !+
: 0988 2      ! Get operator input until valid menu selection is made
: 0989 2      !-
: 0990 2
: 0991 2      Valid_Status = False;
: 0992 2
: 0993 2      DO
: 0994 3      BEGIN
: 0995 3      Type_Test_Menu_Selections ();
: 0996 3
P 0997 4      IF ($MEN_ASKSTR (Msg_Adr = MEN$GT_TMPrompt,
P 0998 4      Buf_Adr = MEN$GT_OperInput_Buffer,
: 0999 4      Def_Adr = T_Prompt_Default))
: 1000 3      THEN
: 1001 4      BEGIN
: 1002 4      !+
: 1003 4      ! Soft console - before even validating input, clear the screen
: 1004 4      !-
: 1005 4      CRD$Screen_Pause (SCREEN$K_Clear_Screen);
: 1006 4
: 1007 4      !+
: 1008 4      ! Validate the operator input
: 1009 4      !-
: 1010 4
: 1011 5      IF (TMenu_OpInp_Chk (MEN$GT_OperInput_Buffer, Entry_Ptr, Device_Number))
: 1012 4      THEN
: 1013 4      SELECTONE (.Entry_Ptr [TMTbl$B_Entry_TstCla]) OF
: 1014 4      SET
: 1015 4      [MEN$K_TstCla_All]:
: 1016 4      !+
: 1017 4      ! If the 'Test All' TEST MENU entry was chosen check that valid
: 1018 4      ! device number was specified
: 1019 4      !-
: 1020 4
: 1021 4      Valid_Status = (.Device_Number EQL MEN$K_TMenu_TstAll_DevNumb);
: 1022 4
: 1023 4      [OTHERWISE] :
: 1024 4      !+
: 1025 4      ! Since the number represents a device verify that
: 1026 4      ! the device is in the DDB database
: 1027 4      !-
: 1028 4
: 1029 4      Valid_Status = MEN$FndDDB_Tcl_SDN
: 1030 4      (%REF (.Entry_Ptr [TMTbl$B_Entry_TstCla]),
: 1031 4      Device_Number,

```

```

: 1032 4      DDB_Ptr);
: 1033 4      TES;
: 1034 3      END;      ! IF statement
: 1035 3
: 1036 4      IF (NOT .Valid_Status)
: 1037 3      THEN
: 1038 3      !+
: 1039 3      ! If <CR/LF> or ^C was typed don't type message, just prompt again.
: 1040 3      ! Both of these operator inputs will load the operator buffer
: 1041 3      ! with the default.
: 1042 3      !-
: 1043 3
: 1044 5      IF (NOT (CH$EQL (.MEN$GT_OperInput_Buffer [0], MEN$GT_OperInput_Buffer [1],
: 1045 4      .T_Prompt_Default [0],      T_Prompt_Default [1])))
: 1046 3      THEN
: 1047 3      $CRD_Message (New_Line, MEN$GT_InvOperInput);
: 1048 3      END      ! DO loop
: 1049 2      UNTIL (.Valid_Status);
: 1050 2
: 1051 2      !+
: 1052 2      ! Now use the menu selection table entry chosen to decide what to do.
: 1053 2      !-
: 1054 2
: 1055 2      SELECTONE (.Entry_Ptr [TMTbl$B_Entry_TstCla]) OF
: 1056 2      SET
: 1057 2      [MEN$K_TstCla_All]:
: 1058 2      !+
: 1059 2      ! Build test queue for all supported hardware
: 1060 2      !-
: 1061 2      MEN$BldTstQ_FncTst_All ();
: 1062 2
: 1063 2      [OTHERWISE]:
: 1064 2      !+
: 1065 2      ! Build test queue for the one hardware device chosen
: 1066 2      !-
: 1067 2      MEN$BldTstQ_FncTst_Dev (.DDB_Ptr);
: 1068 2      TES;
: 1069 2
: 1070 2      RETURN (CRD$K_Success);
: 1071 1      END;      ! Routine MEN$Test_Menu

```

```

.EXTRN MEN$GT_TMPROMPT
.EXTRN MEN$BLDTSTQ_FNCTST_DEV

```

```

      001C 0000      .ENTRY MEN$TEST_MENU, Save R2,R3,R4      ; 0619
      5E      10 C2 00002      SUBL2      #16, SP
      54 D4 00005      CLRL      VALID_STATUS      ; 0991
FCD4      CF      00 FB 00007 1$:      CALLS      #0, TYPE TEST_MENU_SELECTIONS      ; 0995
      00000000G 9F      00 FB 0000C      CALLS      #0, @DS$BREAK      ; 0999
      7E D4 00013      CLRL      -(SP)
      00000000' EF 9F 00015      PUSHAB T_PROMPT_DEFAULT      ;
      7E D4 0001B      CLRL      -(SP)
      7E 48 8F 9A 0001D      MOVZBL #72, -(SP)      ;

```



```

00000000' EF 9F 00021 PUSHAB MEN$GT_OPERINPUT_BUFFER ;
00000000G EF 9F 00027 PUSHAB MEN$GT_TMPROMPT ;
00000000G 9F 06 FB 0002D CALLS #6, @DS$ASKSTR ;
52 50 D0 00034 MOVL R0, STATUS ;
00000000G 9F 00 FB 00037 CALLS #0, @DS$BREAK ;
4E 52 E9 0003E BLBC STATUS, 4$ ;
01 DD 00041 PUSHL #1 ; 1005
00000000G EF 01 FB 00043 CALLS #1, CRD$SCREEN_PAUSE ;
0C AE 9F 0004A PUSHAB DEVICE_NUMBER ; 1011
08 AE 9F 0004D PUSHAB ENTRY_PTR ;
00000000' EF 9F 00050 PUSHAB MEN$GT_OPERINPUT_BUFFER ;
FEFB CF 03 FB 00056 CALLS #3, TMENU_OPINP_CHK ;
31 50 E9 0005B BLBC R0, 4$ ;
50 04 AE D0 0005E MOVL ENTRY_PTR, R0 ; 1013
50 D6 00062 INCL R0 ;
51 60 9A 00064 MOVZBL (R0), R1 ;
08 51 91 00067 CMPB R1, #11 ; 1015
0C 12 0006A BNEQ 2$ ;
50 D4 0006C CLRL R0 ; 1021
01 0C AE D1 0006E CMPL DEVICE_NUMBER, #1 ;
18 12 00072 BNEQ 3$ ;
50 D6 00074 INCL R0 ;
14 11 00076 BRB 3$ ;
08 AE 9F 00078 2$: PUSHAB DDB_PTR ; 1030
10 AE 9F 0007B PUSHAB DEVICE_NUMBER ;
08 AE 51 D0 0007E MOVL R1, 8(SP) ;
08 AE 9F 00082 PUSHAB 8(SP) ;
00000000V EF 03 FB 00085 CALLS #3, MEN$FNDDDB_TCL_SDN ;
54 50 D0 0008C 3$: MOVL R0, VALID_STATUS ;
46 54 E8 0008F 4$: BLBS VALID_STATUS, 6$ ; 1036
51 00000000' EF 9A 00092 MOVZBL MEN$GT_OPERINPUT_BUFFER, R1 ; 1044
50 00000000' EF 9A 00099 MOVZBL T_PROMPT_DEFAULT, R0 ; 1045
50 00 00000000' EF 51 2D 000A0 CMPC5 R1, MEN$GT_OPERINPUT_BUFFER+1, #0, R0, - ;
00000000' EF 000A9 T_PROMPT_DEFAULT+1 ;
22 13 000AE BEQL 5$ ;
00000000G EF 9F 000B0 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1047
01 DD 000B6 PUSHL #1 ;
1A DD 000B8 PUSHL #26 ;
00000000G FF 03 FB 000BA CALLS #3, @CRD$PRINT ;
00000000G EF 9F 000C1 PUSHAB MEN$GT_INVOPERINPUT ;
01 DD 000C7 PUSHL #1 ;
1A DD 000C9 PUSHL #26 ;
00000000G FF 03 FB 000CB CALLS #3, @CRD$PRINT ;
03 54 E8 000D2 5$: BLBS VALID_STATUS, 6$ ; 1049
FF2F 31 000D5 BRW 1$ ;
50 04 AE D0 000D8 6$: MOVL ENTRY_PTR, R0 ; 1055
50 D6 000DC INCL R0 ;
50 60 9A 000DE MOVZBL (R0), R0 ;
08 50 91 000E1 CMPB R0, #11 ; 1057
09 12 000E4 BNEQ 7$ ;
00000000G EF 00 FB 000E6 CALLS #0, MEN$BLDTSTQ_FNCTST_ALL ; 1061
0A 11 000ED BRB 8$ ;
08 AE DD 000EF 7$: PUSHL DDB_PTR ; 1067
00000000G EF 01 FB 000F2 CALLS #1, MEN$BLDTSTQ_FNCTST_DEV ;
50 01 D0 000F9 8$: MOVL #1, R0 ; 1070

```

ZZ-ENSAB-2.0 TEST MENU Routine
MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746 Page 44
V01.1 TEST MENU Routine 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 (23)

04 000FC RET ; 1071

; Routine Size: 253 bytes, Routine Base: CODE + 05C7

```

: 1072 1 xSBTTL 'Get Test Class ASCII name Routine'
: 1073 1
: 1074 1 GLOBAL ROUTINE MEN$Get_TstCla_Name ( R_CLASS_CODE, I_NAME) =
: 1075 1
: 1076 1 !**
: 1077 1 ! FUNCTIONAL DESCRIPTION:
: 1078 1 !
: 1079 1 !     Returns Test Class ASCII text name for specified Test Class Code.
: 1080 1 !
: 1081 1 ! INPUT PARAMETERS
: 1082 1 !
: 1083 1 !     R_CLASS_CODE Address of byte containing Test Class code
: 1084 1 !
: 1085 1 ! OUTPUT PARAMETERS
: 1086 1 !
: 1087 1 !     I_NAME Address to return ASCII Address of test class name
: 1088 1 ! IMPLICIT INPUTS
: 1089 1 !
: 1090 1 ! EXPLICIT OUTPUTS
: 1091 1 !
: 1092 1 ! If the specified test class code is not found an ASCII null string is returned
: 1093 1 !
: 1094 1 ! SIDE EFFECTS
: 1095 1 !
: 1096 1 ! COMPLETION CODES
: 1097 1 !
: 1098 1 ! CRD$K_Success
: 1099 1 !
: 1100 1 ! --

```

```
; 1101 2 BEGIN
; 1102 2   BIND
; 1103 2   Class_Code = .R_CLASS_CODE : BYTE,
; 1104 2   Name       = .I_NAME;
; 1105 2
; 1106 2   SELECTONE .CLASS_CODE OF
; 1107 2   SET
; 1108 2   [MEN$K_TstCla_CPU] : ! CPU test class
; 1109 2     Name = MEN$GT_TstCla_CPU;
; 1110 2
; 1111 2   [MEN$K_TstCla_Memory] : ! Memory test class
; 1112 2     Name = MEN$GT_TstCla_Memory;
; 1113 2
; 1114 2   [MEN$K_TstCla_Disk] : ! Disk test class
; 1115 2     Name = MEN$GT_TstCla_Disk;
; 1116 2
; 1117 2   [MEN$K_TstCla_Tape] : ! Tape test class
; 1118 2     Name = MEN$GT_TstCla_Tape;
; 1119 2
; 1120 2   [MEN$K_TstCla_Comm] : ! Communication test class
; 1121 2     Name = MEN$GT_TstCla_Comm;
; 1122 2
; 1123 2   [MEN$K_TstCla_Real] : ! Realtime test class
; 1124 2     Name = MEN$GT_TstCla_Real;
; 1125 2
; 1126 2   [MEN$K_TstCla_Term] : ! Terminal test class
; 1127 2     Name = MEN$GT_TstCla_Term;
; 1128 2
; 1129 2   [MEN$K_TstCla_Printer] : ! Printer test class
; 1130 2     Name = MEN$GT_TstCla_Printer;
; 1131 2
; 1132 2   [MEN$K_TstCla_Card] : ! Card Reader test class
; 1133 2     Name = MEN$GT_TstCla_Card;
; 1134 2
; 1135 2   [MEN$K_TstCla_IO_Adaptor] : ! I/O Adaptor test class
; 1136 2     Name = MEN$GT_TstCla_IOADAP;
; 1137 2
; 1138 2   [MEN$K_TstCla_All] : ! All test classes
; 1139 2     Name = MEN$GT_TstCla_All;
; 1140 2
; 1141 2   [OTHERWISE] :
; 1142 2     Name = MEN$GT_TstCla_NullName;
; 1143 2   TES;
; 1144 2
; 1145 2     Return (CRD$K_Success);
; 1146 1   END;
```

```
.EXTRN MEN$GT_TSTCLA_CPU
.EXTRN MEN$GT_TSTCLA_MEMORY
.EXTRN MEN$GT_TSTCLA_DISK
.EXTRN MEN$GT_TSTCLA_TAPE
.EXTRN MEN$GT_TSTCLA_COMM
.EXTRN MEN$GT_TSTCLA_REAL
```

.EXTRN MEN\$GT_TSTCLA_TERM
.EXTRN MEN\$GT_TSTCLA_PRINTER
.EXTRN MEN\$GT_TSTCLA_CARD
.EXTRN MEN\$GT_TSTCLA_IOADAP
.EXTRN MEN\$GT_TSTCLA_ALL
.EXTRN MEN\$GT_TSTCLA_NULLNAME

```
0000 00000 .ENTRY MEN$GET_TSTCLA_NAME, Save nothing ; 1074
50 08 AC D0 00002 MOVL I_NAME, R0 ; 1104
51 04 BC 9A 00006 MOVZBL @R_CLASS_CODE, R1 ; 1106
01 51 91 0000A CMPB R1, #1 ; 1108
0A 12 0000D BNEQ 1$ ;
60 00000000G EF 9E 0000F MOVAB MEN$GT_TSTCLA_CPU, (R0) ; 1109
0094 31 00016 BRW 12$ ;
02 51 91 00019 1$: CMPB R1, #2 ; 1111
0A 12 0001C BNEQ 2$ ;
60 00000000G EF 9E 0001E MOVAB MEN$GT_TSTCLA_MEMORY, (R0) ; 1112
0085 31 00025 BRW 12$ ;
03 51 91 00028 2$: CMPB R1, #3 ; 1114
09 12 0002B BNEQ 3$ ;
60 00000000G EF 9E 0002D MOVAB MEN$GT_TSTCLA_DISK, (R0) ; 1115
77 11 00034 BRB 12$ ;
04 51 91 00036 3$: CMPB R1, #4 ; 1117
09 12 00039 BNEQ 4$ ;
60 00000000G EF 9E 0003B MOVAB MEN$GT_TSTCLA_TAPE, (R0) ; 1118
69 11 00042 BRB 12$ ;
05 51 91 00044 4$: CMPB R1, #5 ; 1120
09 12 00047 BNEQ 5$ ;
60 00000000G EF 9E 00049 MOVAB MEN$GT_TSTCLA_COMM, (R0) ; 1121
5B 11 00050 BRB 12$ ;
06 51 91 00052 5$: CMPB R1, #6 ; 1123
09 12 00055 BNEQ 6$ ;
60 00000000G EF 9E 00057 MOVAB MEN$GT_TSTCLA_REAL, (R0) ; 1124
4D 11 0005E BRB 12$ ;
07 51 91 00060 6$: CMPB R1, #7 ; 1126
09 12 00063 BNEQ 7$ ;
60 00000000G EF 9E 00065 MOVAB MEN$GT_TSTCLA_TERM, (R0) ; 1127
3F 11 0006C BRB 12$ ;
08 51 91 0006E 7$: CMPB R1, #8 ; 1129
09 12 00071 BNEQ 8$ ;
60 00000000G EF 9E 00073 MOVAB MEN$GT_TSTCLA_PRINTER, (R0) ; 1130
31 11 0007A BRB 12$ ;
09 51 91 0007C 8$: CMPB R1, #9 ; 1132
09 12 0007F BNEQ 9$ ;
60 00000000G EF 9E 00081 MOVAB MEN$GT_TSTCLA_CARD, (R0) ; 1133
23 11 00088 BRB 12$ ;
0A 51 91 0008A 9$: CMPB R1, #10 ; 1135
09 12 0008D BNEQ 10$ ;
60 00000000G EF 9E 0008F MOVAB MEN$GT_TSTCLA_IOADAP, (R0) ; 1136
15 11 00096 BRB 12$ ;
0B 51 91 00098 10$: CMPB R1, #11 ; 1138
09 12 0009B BNEQ 11$ ;
60 00000000G EF 9E 0009D MOVAB MEN$GT_TSTCLA_ALL, (R0) ; 1139
07 11 000A4 BRB 12$ ;
60 00000000G EF 9E 000A6 11$: MOVAB MEN$GT_TSTCLA_NULLNAME, (R0) ; 1142
```

ZZ-ENSAB-2.0 Get Test Class ASCII name Routine N 7
MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746 Fiche 7 Frame N7 Sequence 1327
V01.1 Get Test Class ASCII name Routine 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 Page 48 (25)

50 01 D0 000AD 12\$: MOVL #1, R0 ; 1145
04 000B0 RET ; 1146

; Routine Size: 177 bytes, Routine Base: CODE + 06C4

ZZ
ME
V0

```

; 1147 1 *SBTTL 'Find DDB for Test Class and Select Device No. Routine'
; 1148 1
; 1149 1 GLOBAL ROUTINE MEN$FndDDB_Tcl_SDN ( R_CLASS_CODE, R_SDN, I_DDB) =
; 1150 1
; 1151 1 !**
; 1152 1 ! FUNCTIONAL DESCRIPTION:
; 1153 1 !
; 1154 1 ! Searches for DDB which has a support block and the Test Class
; 1155 1 ! code and Select Device Number specified.
; 1156 1 !
; 1157 1 ! INPUT PARAMETERS
; 1158 1 !
; 1159 1 ! R_CLASS_CODE Address of byte containing Test Class Code.
; 1160 1 !
; 1161 1 ! R_SDN Address of longword containing Select Device Number
; 1162 1 !
; 1163 1 ! OUTPUT PARAMETERS
; 1164 1 !
; 1165 1 ! I_DDB Address of longword to return DDB pointer
; 1166 1 !
; 1167 1 ! IMPLICIT INPUTS
; 1168 1 !
; 1169 1 ! EXPLICIT OUTPUTS
; 1170 1 !
; 1171 1 ! SIDE EFFECTS
; 1172 1 !
; 1173 1 ! COMPLETION CODES
; 1174 1 !
; 1175 1 ! CRD$K_Success DDB found
; 1176 1 ! CRD$K_Failure DDB not found
; 1177 1 !
; 1178 1 ! --

```

```

: 1179 1
: 1180 2 BEGIN
: 1181 2 REGISTER
: 1182 2 DDB_Found,
: 1183 2 Queue_BlkPtr : REF $MEN_Queue_Link_ATTR,
: 1184 2 DDB_Ptr : REF Device_Data_Block_Structure,
: 1185 2 SupBlk_Ptr : REF $MEN_SupBlk_Attr;
: 1186 2
: 1187 2 BIND
: 1188 2 Class_Code = .R_Class_Code : BYTE,
: 1189 2 SDN = .R_SDN,
: 1190 2 DDB = .I_DDB;
: 1191 2
: 1192 2 DDB_Found = False;
: 1193 2 Queue_BlkPtr = MEN$GA_DDB_Head;
: 1194 2
: 1195 2 WHILE (((Queue_BlkPtr = .Queue_BlkPtr [Queue$L_Flink]) NEQ MEN$GA_DDB_Head) AND (NOT .DDB_Found)) DO
: 1196 3 BEGIN
: 1197 3 DDB_Ptr = .Queue_BlkPtr;
: 1198 3
: 1199 3 IF ( SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr]) NEQ 0
: 1200 3 THEN
: 1201 3 DDB_Found =
: 1202 3 (CH$EQL (1, Class_Code, 1, SupBlk_Ptr [SupBlk$B_Test_Class])) AND
: 1203 3 (.SDN EQL .DDB_Ptr [CRD$K_DDB_Menu_Device_Numb]);
: 1204 2 END;
: 1205 2
: 1206 2 IF .DDB_Found
: 1207 2 THEN
: 1208 2 DDB = .DDB_Ptr
: 1209 2 ELSE
: 1210 2 DDB = 0;
: 1211 2
: 1212 2 RETURN (.DDB_Found);
: 1213 1 END; ! Routine MEN$FndDDB_Tcl_Sdn

```

```

003C 00000 .ENTRY MEN$FNDDDB_TCL_SDN, Save R2,R3,R4,R5 ; 1149
50 D4 00002 CLRL DDB_Found ; 1192
51 00000000G EF 9E 00004 MOVAB MEN$GA_DDB_HEAD, QUEUE_BLKPTR ; 1193
26 11 0000B BRB 4$ ; 1195
52 51 D0 0000D 1$: MOVL QUEUE_BLKPTR, DDB_PTR ; 1197
53 20 A2 D0 00010 MOVL 32(DDB_PTR), SUPBLK_PTR ; 1199
1D 13 00014 BEQL 4$ ;
55 D4 00016 CLRL R5 ; 1202
11 A3 04 BC 91 00018 CMPB @R_CLASS_CODE, 17(SUPBLK_PTR) ;
02 12 0001D BNEQ 2$ ;
55 D6 0001F INCL R5 ;
54 D4 00021 2$: CLRL R4 ; 1203
1C A2 08 BC D1 00023 CMPL @R_SDN, 28(DDB_PTR) ;
02 12 00028 BNEQ 3$ ;
54 D6 0002A INCL R4 ;

```


D 8

ZZ-ENSAB-2.0 Find DDB for Test Class and Select Device No. R 19-Sep-1985 Fiche 7 Frame D8 Sequence 1330
 MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746 Page 51
 V01.1 Find DDB for Test Class and Select Device No. R 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 (27)

```

50      55 D2 0002C 3$: MCOML R5, DDB_FOUND ;
50      54      50 CB 0002F BICL3 DDB_FOUND, R4, DDB_FOUND ;
51      61 D0 00033 4$: MOVL (QUEUE_BLKPTR), QUEUE_BLKPTR ; 1195
54 00000000G EF 9E 00036 MOVAB MEN$GA_DDB_HEAD, R4 ;
54      51 D1 0003D CMPL QUEUE_BLKPTR, R4 ;
03 13 00040 BEQL 5$ ;
C8      50 E9 00042 BLBC DDB_FOUND, 1$ ;
05      50 E9 00045 5$: BLBC DDB_FOUND, 6$ ; 1206
OC BC      52 D0 00048 MOVL DDB_PTR, ai_DDB ; 1208
04 0004C RET ;
OC BC D4 0004D 6$: CLRL ai_DDB ; 1210
04 00050 RET ; 1213
  
```

; Routine Size: 81 bytes, Routine Base: CODE + 0775

```
: 1214 1 xSBTTL 'Find DDB for Test Class Routine'
: 1215 1
: 1216 1 GLOBAL ROUTINE MEN$FndDDB_Tcl ( R_CLASS_CODE,I_DDB) =
: 1217 1
: 1218 1 !*
: 1219 1 ! FUNCTIONAL DESCRIPTION:
: 1220 1 !
: 1221 1 ! Searches for a DDB which has a support block and the Test Class
: 1222 1 ! code specified. Returns the DDB pointer of
: 1223 1 ! the first DDB found.
: 1224 1 !
: 1225 1 ! INPUT PARAMETERS
: 1226 1 !
: 1227 1 ! R_CLASS_CODE Address of byte containing Test Class Code.
: 1228 1 !
: 1229 1 !
: 1230 1 ! OUTPUT PARAMETERS
: 1231 1 !
: 1232 1 ! I_DDB Address of longword to return DDB pointer
: 1233 1 !
: 1234 1 ! IMPLICIT INPUTS
: 1235 1 !
: 1236 1 ! EXPLICIT OUTPUTS
: 1237 1 !
: 1238 1 ! SIDE EFFECTS
: 1239 1 !
: 1240 1 ! COMPLETION CODES
: 1241 1 !
: 1242 1 ! CRD$K_Success DDB found
: 1243 1 ! CRD$K_Failure DDB not found
: 1244 1 !
: 1245 1 ! --
```

```

: 1246 2 BEGIN
: 1247 2   REGISTER
: 1248 2   DDB_Found,
: 1249 2   Queue_BlkPtr : REF $MEN_Queue_Link_ATTR,
: 1250 2   DDB_Ptr : REF Device_Data_Block_Structure,
: 1251 2   SupBlk_Ptr : REF $MEN_SupBlk_Attr;
: 1252 2
: 1253 2   BIND
: 1254 2   Class_Code = .R_Class_Code : BYTE,
: 1255 2   DDB = .I_DDB;
: 1256 2
: 1257 2   DDB_Found = False;
: 1258 2   Queue_BlkPtr = MEN$GA_DDB_Head;
: 1259 2
: 1260 2   WHILE (((Queue_BlkPtr = .Queue_BlkPtr [Queue$L_Flink]) NEQ MEN$GA_DDB_Head) AND (NOT .DDB_Found)) DO
: 1261 3   BEGIN
: 1262 3   DDB_Ptr = .Queue_BlkPtr;
: 1263 3
: 1264 3   IF (SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr]) NEQ 0
: 1265 3   THEN
: 1266 3     DDB_Found = CH$EQL (1, Class_Code, 1, SupBlk_Ptr [SupBlk$B_Test_Class]);
: 1267 2   END;
: 1268 2
: 1269 2   IF .DDB_Found
: 1270 2   THEN
: 1271 2     DDB = .DDB_Ptr
: 1272 2   ELSE
: 1273 2     DDB = 0;
: 1274 2   RETURN (.DDB_Found);
: 1275 1 END;      ! Routine MEN$FndDDB_Tcl

```

```

001C 00000 .ENTRY MEN$FNDDDB_TCL, Save R2,R3,R4 ; 1216
50 D4 00002 CLRL DDB_FOUND ; 1257
51 00000000G EF 9E 00004 MOVAB MEN$GA_DDB_HEAD, QUEUE_BLKPTR ; 1258
17 11 0000B BRB 3$ ; 1260
52 51 D0 0000D 1$: MOVL QUEUE_BLKPTR, DDB_PTR ; 1262
53 20 A2 D0 00010 MOVL 32(DDB_PTR), SUPBLK_PTR ; 1264
0E 13 00014 BEQL 3$ ;
54 D4 00016 CLRL R4 ; 1266
11 A3 04 BC 91 00018 CMPB @R_CLASS_CODE, 17(SUPBLK_PTR) ;
02 12 0001D BNEQ 2$ ;
54 D6 0001F INCL R4 ;
50 54 D0 00021 2$: MOVL R4, DDB_FOUND ;
51 61 D0 00024 3$: MOVL (QUEUE_BLKPTR), QUEUE_BLKPTR ; 1260
54 00000000G EF 9E 00027 MOVAB MEN$GA_DDB_HEAD, R4 ;
54 51 D1 0002E CMPL QUEUE_BLKPTR, R4 ;
03 13 00031 BEQL 4$ ;
D7 50 E9 00033 BLBC DDB_FOUND, 1$ ;
05 50 E9 00036 4$: BLBC DDB_FOUND, 5$ ; 1269
08 BC 52 D0 00039 MOVL DDB_PTR, @I_DDB ; 1271
04 0003D RET ;

```

ZZ-ENSAB-2.0 Find DDB for Test Class Routine G 8
MENPROMPT CRD MENU - Menu Prompt Module 19-Sep-1985 17:16:44 VAX-11 Bliss-32 V4.1-746 Fiche 7 Frame G8 Sequence 1333
V01.1 Find DDB for Test Class Routine 3-Jan-1985 17:02:34 [DS.CRD.V020]MENPROMPT.B32;1 (29) Page 54

08 BC D4 0003E 5\$: CLRL aI_DDB ; 1273
04 00041 RET ; 1275

; Routine Size: 66 bytes, Routine Base: CODE + 07C6

```

: 1276 1 xSBTTL 'Print Hardware Device Test Preparation Routine'
: 1277 1
: 1278 1 GLOBAL ROUTINE MEN$Print_DevTstPrep =
: 1279 1
: 1280 1 !+
: 1281 1 ! FUNCTIONAL DESCRIPTION:
: 1282 1 !
: 1283 1 !   Prints the hardware device test preparation required for
: 1284 1 !   each supported device on the system. This preparation is required
: 1285 1 !   before the testing for the device is initiated.
: 1286 1 !
: 1287 1 !   Format:
: 1288 1 !
: 1289 1 !   Hardware : Hardware Name 1 ,Hardware Name 2...Hardware Name N
: 1290 1 !   Preparaton : 'Text'
: 1291 1 !
: 1292 1 !   Hardware : Hardware Name 1 ,Hardware Name 2...Hardware Name N
: 1293 1 !   Preparaton : 'Text'
: 1294 1 !
: 1295 1 !
: 1296 1 !
: 1297 1 !
: 1298 1 !   Hardware : Hardware Name 1 ,Hardware Name 2...Hardware Name N
: 1299 1 !   Preparaton : 'Text'
: 1300 1 !
: 1301 1 !   Each preparation text represents a unique preparation text printout found in the
: 1302 1 !   Device Test Preparation Table (MEN$GA_PrepTbl).
: 1303 1 !
: 1304 1 ! INPUT PARAMETERS
: 1305 1 !
: 1306 1 !
: 1307 1 ! OUTPUT PARAMETERS
: 1308 1 !
: 1309 1 !
: 1310 1 ! IMPLICIT INPUTS
: 1311 1 !
: 1312 1 !   DDB Database (MEN$GA_DDB_Head).
: 1313 1 !
: 1314 1 !   Device Test Preparation Table (MEN$GA_PrepTbl).
: 1315 1 !
: 1316 1 ! EXPLICIT OUTPUTS
: 1317 1 !
: 1318 1 !   Terminal printout.
: 1319 1 !
: 1320 1 ! SIDE EFFECTS
: 1321 1 !
: 1322 1 ! COMPLETION CODES
: 1323 1 !
: 1324 1 ! CRD$K_Success
: 1325 1 !
: 1326 1 ! --
  
```

```

: 1327 2 BEGIN
: 1328 2   LITERAL
: 1329 2   Pattern_Buf_Sz = 24;
: 1330 2
: 1331 2   LOCAL
: 1332 2   Screen_Counter,
: 1333 2   PrepTbl_Index,
: 1334 2   DevTstPrep_Code,
: 1335 2   HdwrNam_Found,
: 1336 2   HdwrNam_String_Buf_Ptr,
: 1337 2   HdwrNam_String_Buf_End,
: 1338 2   HdwrNam_String_Sz,
: 1339 2   Pattern_String_Sz,
: 1340 2   Pattern_Buf_Ptr,
: 1341 2
: 1342 2   Pattern_Buf : VECTOR [Pattern_Buf_Sz, BYTE];
: 1343 2
: 1344 2   REGISTER
: 1345 2   HdwrNam_Ptr : REF VECTOR [,BYTE],
: 1346 2   Entry_Ptr : REF $MEN_PrepTbl_Entry_ATTR,
: 1347 2   DDB_Ptr : REF Device_Data_Block_Structure,
: 1348 2   PTable_Ptr : REF $DS_HPO_DECL (),
: 1349 2   SupBlk_Ptr : REF $MEN_SupBlk_Attr,
: 1350 2   TstCnfg_Ptr : REF $MEN_TstCnfg_ATTR;
: 1351 2
: 1352 2   Screen_Counter = 1; ! Init soft console line number on
: 1353 2   ! which output will occur.
: 1354 2   !+
: 1355 2   ! Get a device test preparation code from the table
: 1356 2   !-
: 1357 2
: 1358 2   PrepTbl_Index = -1;
: 1359 2
: 1360 2   WHILE ((PrepTbl_Index = .PrepTbl_Index + 1) LSS (MEN$GK_PrepTbl_Entries) ) DO
: 1361 3   BEGIN
: 1362 3   Entry_Ptr = MEN$GA_PrepTbl [.PrepTbl_Index, PrepTbl$B_Entry_Code];
: 1363 3   DevTstPrep_Code = .Entry_Ptr [PrepTbl$B_Entry_Code];
: 1364 3   HdwrNam_String_Buf_Ptr = HdwrNam_String_Buf;
: 1365 3   ! Point to buffer
: 1366 3   HdwrNam_String_Buf_End = HdwrNam_String_Buf + HdwrNam_String_Buf_Sz;
: 1367 3   ! Calculate end of buffer
: 1368 3
: 1369 3   !+
: 1370 3   ! Get all unique Hardware Names from the DDB's which
: 1371 3   ! have a support block and the device test preparation code
: 1372 3   ! specified. Build a string of hardware device names.
: 1373 3   ! The hardware names are separated by commas and each name
: 1374 3   ! has a trailing space.
: 1375 3   !-
: 1376 3
: 1377 3   HdwrNam_Found = False; ! Assume that no hardware name was found
: 1378 3   ! and therefore no string buffer built
: 1379 3   DDB_Ptr = MEN$GA_DDB_Head;
: 1380 3
: 1381 3   WHILE ((DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink]) NEQ MEN$GA_DDB_Head) DO

```

```

: 1382 4      BEGIN
: 1383 4      PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 1384 4      ! Point to P-Table
: 1385 4      IF ( SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr]) NEQ 0
: 1386 4      THEN
: 1387 5      BEGIN
: 1388 5      TstCnfg_Ptr = SupBlk_Ptr [SupBlk$B_StrtFrst_CnfgBlk];
: 1389 5
: 1390 5      !+
: 1391 5      ! If the DDB has the specified prep. code and if the
: 1392 5      ! DDB's hardware name is not already located in the
: 1393 5      ! string buffer then load the buffer with the hardware name.
: 1394 5      !-
: 1395 5
: 1396 5      HdwrNam_Ptr = PTable_Ptr [HP$T_Type];
: 1397 5      ! Point to hardware name
: 1398 5      Pattern_Buf_Ptr =
: 1399 5      CH$COPY (.HdwrNam_Ptr [0], HdwrNam_Ptr [1], xC',', (.HdwrNam_Ptr [0] + 1), Pattern_Buf);
: 1400 5      ! Load the hardware name into the pattern
: 1401 5      ! buffer with a trailing comma
: 1402 5      Pattern_String_Sz = .Pattern_Buf_Ptr - Pattern_Buf;
: 1403 5      ! Get pattern size including trailing Comma
: 1404 5
: 1405 5      !+
: 1406 5      ! Check for prep. code and that hardware name not in
: 1407 5      ! string buffer and that there is adequate room in buffer
: 1408 5      !-
: 1409 5
: 1410 5      IF (.DevTstPrep_Code EQL .TstCnfg_Ptr [TstCnfg$B_Prep]) AND
: 1411 6      (CH$FAIL
: 1412 6      (CH$FIND_SUB
: 1413 6      (HdwrNam_String_Buf_Sz,
: 1414 6      HdwrNam_String_Buf,
: 1415 6      (.Pattern_Buf_Ptr - Pattern_Buf),
: 1416 6      Pattern_Buf)
: 1417 6      )
: 1418 5      ) AND
: 1419 6      ((.HdwrNam_String_Buf_End - .HdwrNam_String_Buf_Ptr) GEQ (.HdwrNam_Ptr [0] + 2))
: 1420 5      THEN
: 1421 6      BEGIN
: 1422 6      !+
: 1423 6      ! Load DDB's hardware name from pattern buffer into string buffer.
: 1424 6      ! Load Hardware name into buffer, with trailing comma and space.
: 1425 6      !-
: 1426 6
: 1427 6      HdwrNam_String_Buf_Ptr =
: 1428 6      CH$COPY (.Pattern_String_Sz,
: 1429 6      Pattern_Buf,
: 1430 6      xC',',
: 1431 6      .Pattern_String_Sz+1,
: 1432 6      .HdwrNam_String_Buf_Ptr);
: 1433 6      HdwrNam_Found = True;
: 1434 6      ! Indicate that at least one hardware name was found
: 1435 5      END;
: 1436 4      END;
  
```

```

: 1437 3      END;
: 1438 3
: 1439 3  IF .HdwrNam_Found
: 1440 3  THEN
: 1441 4      BEGIN
: 1442 4          HdwrNam_String_Sz = .HdwrNam_String_Buf_Ptr - HdwrNam_String_Buf - 2;
: 1443 4          ! Get String size in bytes ignoring the trailing comma and space
: 1444 4          !+
: 1445 4          ! Before printing anything make sure there is enough room on the screen
: 1446 4          !-
: 1447 4
: 1448 4          ! *** This is temporary kludge until
: 1449 4          ! *** CRD$Screen_Pause (SCREEN$K_Count_Line) gets written.
: 1450 4      SELECTONE .PrepTbl_Index OF
: 1451 4  SET
: 1452 4  [0]: Screen_Counter = .Screen_Counter + 3;
: 1453 4  [1]: Screen_Counter = .Screen_Counter + 6;
: 1454 4  [2]: Screen_Counter = .Screen_Counter + 4;
: 1455 4  [3]: Screen_Counter = .Screen_Counter + 6;
: 1456 4  [4]: Screen_Counter = .Screen_Counter + 5;
: 1457 4  [5]: Screen_Counter = .Screen_Counter + 5;
: 1458 4  [6]: Screen_Counter = .Screen_Counter + 7;
: 1459 4  TES;
: 1460 4
: 1461 5      IF (.Screen_Counter GEQ CRD$K_Numb_Screen_Lines)
: 1462 5      THEN
: 1463 5      BEGIN
: 1464 5          CRD$Screen_Pause (SCREEN$K_Press_Return);
: 1465 5          Screen_Counter = 1;
: 1466 5          ! Init output line number again
: 1467 5      END;
: 1468 4
: 1469 4
: 1470 4      !+
: 1471 4      ! Print the Hardware Device name string
: 1472 4      !-
: 1473 4
: 1474 4  !****      $CRD_Message (New_Line, MEN$GT_DevTstPrep_Name, .HdwrNam_String_Sz, HdwrNam_String_Buf);
: 1475 4
: 1476 4      $CRD_Print (CRD$GT_New_Line);
: 1477 4      $CRD_Print (MEN$GT_DevTstPrep_Name, .HdwrNam_String_Sz, HdwrNam_String_Buf);
: 1478 4
: 1479 4      !+
: 1480 4      ! Print the Hardware Device Test Preparation Text
: 1481 4      !-
: 1482 4
: 1483 4      $CRD_Print (MEN$GT_DevTstPrep_Text);
: 1484 4      $CRD_Print (.Entry_Ptr [PrepTbl$L_Entry_Text]);
: 1485 3      END;      ! End of IF .HdwrNam_Found THEN BEGIN-END
: 1486 2  END;      ! End of WHILE (PrepTbl_Index...) DO BEGIN-END
: 1487 2
: 1488 2
: 1489 2      $CRD_Print (MEN$GT_End_of_List); ! Print [End of list]
: 1490 2
: 1491 2      CRD$Screen_Pause (SCREEN$K_Press_Return_MM);

```



```

; 1492 2      ! Pause before returning to MAIN MENU.
; 1493 2
; 1494 2      RETURN (CRD$K_Success);
; 1495 1 END;

```

```

.EXTRN CRD$GT_NEW_LINE
.EXTRN MEN$GT_DEVSTPREP_NAME
.EXTRN MEN$GT_DEVSTPREP_TEXT
.EXTRN MEN$GT_END_OF_LIST

```

```

      OFFC 00000 .ENTRY MEN$PRINT_DEVSTPREP, Save R2,R3,R4,R5,R6,- ; 1278
      R7,R8,R9,R10,R11
20 5E      3C C2 00002   SUBL2   #60, SP
1C AE      01 D0 00005   MOVL    #1, SCREEN_COUNTER ; 1352
   AE      01 CE 00009   MNEGL   #1, PREPTBL_INDEX ; 1358
0171 31 0000D   BRW      15$ ; 1360
50 50      1C AE      05 C5 00010 1$: MULL3   #5, PREPTBL_INDEX, R0 ; 1362
57 00000000'EF40 9E 00015   MOVAB   MEN$GA_PREPTBL[R0], ENTRY_PTR ;
04 AE      67 9A 0001D   MOVZBL (ENTRY_PTR), DEVSTPREP_CODE ; 1363
18 AE 00000000' EF 9E 00021   MOVAB   HDWRNAM_STRING_BUF, HDWRNAM_STRING_BUF_PTR ; 1364
08 AE 00000000' EF 9E 00029   MOVAB   HDWRNAM_STRING_BUF+256, - ; 1366
      HDWRNAM_STRING_BUF_END
10 AE D4 00031   CLRL    HDWRNAM_FOUND ; 1377
58 00000000G EF 9E 00034   MOVAB   MEN$GA_DDB_HEAD, DDB_PTR ; 1379
76 11 0003B   BRB      4$ ; 1381
59 08      A8 D0 0003D 2$: MOVL    8(DDB_PTR), PTABLE_PTR ; 1383
5A 20      A8 D0 00041   MOVL    32(DDB_PTR), SUPBLK_PTR ; 1395
6C 13 00045   BEQL     4$ ;
5B 17      AA 9E 00047   MOVAB   23(R10), TSTCNFG_PTR ; 1388
56 26      A9 9E 0004B   MOVAB   38(R9), HDWRNAM_PTR ; 1396
51 66      9A 0004F   MOVZBL (HDWRNAM_PTR), R1 ; 1399
50 66      9A 00052   MOVZBL (HDWRNAM_PTR), R0 ;
50 D6 00055   INCL     R0 ;
50 2C      01 A6      51 2C 00057   MOVCS   R1, 1(HDWRNAM_PTR), #44, R0, PATTERN_BUF ;
24 AE      0005D
6E 53 D0 0005F   MOVL    R3, PATTERN_BUF_PTR ;
50 24 AE 9E 00062   MOVAB   PATTERN_BUF, R0 ; 1402
54 6E      50 C3 00066   SUBL3   R0, PATTERN_BUF_PTR, R4 ;
14 AE      54 D0 0006A   MOVL    R4, PATTERN_STRING_SZ ;
04 AE      6B 08      00 ED 0006E   CMPZV   #0, #8, (TSTCNFG_PTR), DEVSTPREP_CODE ; 1410
00000000' 3D 12 00074   BNEQ     4$ ;
EF 0100 8F 24 AE 54 39 00076   MATCHC R4, PATTERN_BUF, #256, HDWRNAM_STRING_BUF ; 1413
03 13 00082   BEQL     3$ ;
53 54 D0 00084   MOVL    R4, R3 ;
53 54 C2 00087 3$: SUBL2   R4, R3 ;
27 12 0008A   BNEQ     4$ ; 1417
51 08 AE 18 AE C3 0008C   SUBL3   HDWRNAM_STRING_BUF_PTR, - ; 1419
      HDWRNAM_STRING_BUF_END, R1
50 66 9A 00092   MOVZBL (HDWRNAM_PTR), R0 ;
50 02 C0 00095   ADDL2   #2, R0 ;
50 51 D1 00098   CMPL    R1, R0 ;
16 19 0009B   BLSS     4$ ;
50 14 AE      01 C1 0009D   ADDL3   #1, PATTERN_STRING_SZ, R0 ; 1431

```

```

50      20      24      AE 14      AE 2C 000A2      MOVCS      PATTERN_STRING_SZ, PATTERN_BUF, #32, R0, - ; 1432
18      BE      000A9      @HDWRNAM_STRING_BUF_PTR
18      AE      53      D0 000AB      MOVL      R3, HDWRNAM_STRING_BUF_PTR ;
10      AE      01      D0 000AF      MOVL      #1, HDWRNAM_FOUND ; 1433
58      68      D0 000B3      4$: MOVL      (DDB_PTR), DDB_PTR ; 1381
50      00000000G EF 9E 000B6      MOVAB      MEN$GA_DDB_HEAD, R0 ;
50      58      D1 000BD      CMPL      DDB_PTR, R0 ;
03      13      000C0      BEQL      5$ ;
FF78     31      000C2      BRW      2$ ;
03      10      AE E8 000C5      5$: BLBS      HDWRNAM_FOUND, 6$ ; 1439
00B5     31      000C9      BRW      15$ ;
50      00000000' EF 9E 000CC      6$: MOVAB      HDWRNAM_STRING_BUF, R0 ; 1442
50      18      AE C2 000D3      SUBL2     HDWRNAM_STRING_BUF_PTR, R0 ;
0C      AE      50      CE 000D7      MNEGL     R0, HDWRNAM_STRING_SZ ;
0C      AE      02      C2 000DB      SUBL2     #2, HDWRNAM_STRING_SZ ;
1C      AE      DS      000DF      TSTL      PREPTBL_INDEX ; 1452
06      12      000E2      BNEQ      7$ ;
20      AE      03      C0 000E4      ADDL2     #3, SCREEN_COUNTER ;
3A      11      000E8      BRB      13$ ;
01      1C      AE D1 000EA      7$: CMPL     PREPTBL_INDEX, #1 ; 1453
12      13      000EE      BEQL      9$ ;
02      1C      AE D1 000F0      CMPL     PREPTBL_INDEX, #2 ; 1454
06      12      000F4      BNEQ      8$ ;
20      AE      04      C0 000F6      ADDL2     #4, SCREEN_COUNTER ;
28      11      000FA      BRB      13$ ;
03      1C      AE D1 000FC      8$: CMPL     PREPTBL_INDEX, #3 ; 1455
06      12      00100      BNEQ      10$ ;
20      AE      06      C0 00102      9$: ADDL2     #6, SCREEN_COUNTER ;
1C      11      00106      BRB      13$ ;
04      1C      AE D1 00108      10$: CMPL     PREPTBL_INDEX, #4 ; 1456
06      13      0010C      BEQL      11$ ;
05      1C      AE D1 0010E      CMPL     PREPTBL_INDEX, #5 ; 1457
06      12      00112      BNEQ      12$ ;
20      AE      05      C0 00114      11$: ADDL2     #5, SCREEN_COUNTER ;
0A      11      00118      BRB      13$ ;
06      1C      AE D1 0011A      12$: CMPL     PREPTBL_INDEX, #6 ; 1458
04      12      0011E      BNEQ      13$ ;
20      AE      07      C0 00120      ADDL2     #7, SCREEN_COUNTER ;
16      20      AE D1 00124      13$: CMPL     SCREEN_COUNTER, #22 ; 1461
0D      19      00128      BLSS      14$ ;
7E      D4      0012A      CLRL      -(SP) ; 1464
00000000G EF 01 FB 0012C      CALLS     #1, CRD$SCREEN_PAUSE ;
20      AE      01      D0 00133      MOVL      #1, SCREEN_COUNTER ; 1465
00000000G EF 9F 00137      14$: PUSHAB   CRD$GT_NEW_LINE ; 1476
01      DD      0013D      PUSHL     #1 ;
1A      DD      0013F      PUSHL     #26 ;
00000000G FF 03 FB 00141      CALLS     #3, @CRD$PRINT ;
00000000' EF 9F 00148      PUSHAB   HDWRNAM_STRING_BUF ; 1477
10      AE      DD      0014E      PUSHL     HDWRNAM_STRING_SZ ;
00000000G EF 9F 00151      PUSHAB   MEN$GT_DEVTSTPREP_NAME ;
01      DD      00157      PUSHL     #1 ;
1A      DD      00159      PUSHL     #26 ;
00000000G FF 05 FB 0015B      CALLS     #5, @CRD$PRINT ;
00000000G EF 9F 00162      PUSHAB   MEN$GT_DEVTSTPREP_TEXT ; 1483
01      DD      00168      PUSHL     #1 ;

```

```

    1A DD 0016A    PUSHL    #26
00000000G FF      03 FB 0016C    CALLS    #3, @CRD$PRINT
01 A7 DD 00173    PUSHL    1(ENTRY_PTR) ; 1484
    01 DD 00176    PUSHL    #1
    1A DD 00178    PUSHL    #26
00000000G FF      03 FB 0017A    CALLS    #3, @CRD$PRINT
1C AE D6 00181 15$ INCL    PREPTBL_INDEX ; 1360
    08 1C AE D1 00184    CMPL    PREPTBL_INDEX, #8
    03 18 00188    BGEQ     16$
FE83 31 0018A    BRW      1$
00000000G EF 9F 0018D 16$ PUSHAB MEN$GT_END_OF_LIST ; 1489
    01 DD 00193    PUSHL    #1
    1A DD 00195    PUSHL    #26
00000000G FF      03 FB 00197    CALLS    #3, @CRD$PRINT ; 1491
    03 DD 0019E    PUSHL    #3
00000000G EF      01 FB 001A0    CALLS    #1, CRD$SCREEN_PAUSE
    50      01 D0 001A7    MOVL     #1, R0 ; 1494
    04 001AA    RET

```

; Routine Size: 427 bytes, Routine Base: CODE + 0808

```

: 1496 1 xSBTTL 'MEN$Print_System_Hdwr Routine'
: 1497 1
: 1498 1 GLOBAL ROUTINE MEN$Print_System_Hdwr =
: 1499 1
: 1500 1 !*
: 1501 1 ! FUNCTIONAL DESCRIPTION:
: 1502 1 !
: 1503 1 !   Print system hardware and support status
: 1504 1 !
: 1505 1 ! INPUT PARAMETERS
: 1506 1 !
: 1507 1 !
: 1508 1 ! OUTPUT PARAMETERS
: 1509 1 !
: 1510 1 ! IMPLICIT INPUTS
: 1511 1 !
: 1512 1 ! EXPLICIT OUTPUTS
: 1513 1 !
: 1514 1 !
: 1515 1 ! SIDE EFFECTS
: 1516 1 !
: 1517 1 !
: 1518 1 ! COMPLETION CODES
: 1519 1 !
: 1520 1 !   CRD$K_Success
: 1521 1 ! -

```

```

: 1522 1
: 1523 2 BEGIN
: 1524 2 REGISTER
: 1525 2 Hdwr_Name_Ptr,
: 1526 2 Dev_Name,
: 1527 2 SprtStat_Ptr,
: 1528 2 DDB_Ptr : REF Device_Data_Block_Structure,
: 1529 2 SupBik_Ptr : REF $MEN_SupBik_ATTR,
: 1530 2 PTable_Ptr : REF $DS_HPO_DECL ();
: 1531 2
: 1532 2 LOCAL
: 1533 2 Screen_Counter;
: 1534 2
: 1535 2 Screen_Counter = 4; ! Init soft console line number on which
: 1536 2 ! the output will occur.
: 1537 2 ! The header title takes 1st 4 lines
: 1538 2 DDB_Ptr = MEN$GA_DDB_Head;
: 1539 2
: 1540 3 IF (.DDB_Ptr [CRD$K_DDB_Flink] NEQ MEN$GA_DDB_Head)
: 1541 2 THEN
: 1542 2 $CRD_Message (New_Line, MEN$GT_SysHdwr_Title);
: 1543 2
: 1544 2 WHILE ((DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink]) NEQ MEN$GA_DDB_Head) DO
: 1545 3 BEGIN
: 1546 3 !+
: 1547 3 ! Set up for printing Hardware Name
: 1548 3 !-
: 1549 3
: 1550 3 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 1551 3 ! Point to the P-Table
: 1552 3 Hdwr_Name_Ptr = PTable_Ptr [HP$T_TYPE];
: 1553 3 ! Point to the Hardware device name ASCII
: 1554 3
: 1555 3 !+
: 1556 3 ! Set up for printing Generic Device Name
: 1557 3 !-
: 1558 3
: 1559 3 Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
: 1560 3 ! Get an ASCII device name string from the Ptable
: 1561 3
: 1562 3 !+
: 1563 3 ! Set up for printing Support Status
: 1564 3 !-
: 1565 3
: 1566 4 IF ((SupBik_Ptr = .DDB_Ptr [CRD$K_DDB_SupBik_Block_Ptr]) NEQ 0)
: 1567 3 THEN
: 1568 3 SprtStat_Ptr = MEN$GT_Supported
: 1569 3 ELSE
: 1570 3 SprtStat_Ptr = MEN$GT_NoSupport;
: 1571 3 ! Point to Support Status ASCII
: 1572 3
: 1573 3 !+
: 1574 3 ! Before printing out the line, make sure there is enough
: 1575 3 ! room on the screen.
: 1576 3 !-

```

```

; 1577 3
; 1578 4 IF (.Screen_Counter EQL CRD$K_Numb_Screen_Lines)
; 1579 4 ! AND $Soft_Console
; 1580 3 THEN
; 1581 4 BEGIN
; 1582 4 CRD$Screen_Pause (SCREEN$K_Press_Return);
; 1583 4 $CRD_Message (New_Line, MEN$GT_SysHdwr_Title);
; 1584 4 Screen_Counter = 4;
; 1585 4 END
; 1586 3 ELSE
; 1587 3 Screen_Counter = .Screen_Counter + 1;
; 1588 3
; 1589 3
; 1590 3 !+
; 1591 3 ! Print the system hardware text
; 1592 3 !-
; 1593 3
P 1594 3 $CRD_Message ( New_Line,
P 1595 3 MEN$GT_System_Hdwr_Text,
P 1596 3 .Hdwr_Name_Ptr, ! Hardware Name ASCII
P 1597 3 .Dev_Name, ! Generic Device Name ASCII
P 1598 3 .SprtStat_Ptr ! Support Status ASCII
; 1599 3 );
; 1600 2 END;
; 1601 2
; 1602 2 $CRD_Print (MEN$GT_End_of_List); ! Print [End of list]
; 1603 2
; 1604 2 CRD$Screen_Pause (SCREEN$K_Press_Return_MM);
; 1605 2 ! Pause before returning to MAIN MENU.
; 1606 2
; 1607 2 RETURN (CRD$K_Success);
; 1608 1 END;

```

```

.EXTRN MEN$GT_SYSHDWR_TITLE
.EXTRN MEN$GT_SUPPORTED
.EXTRN MEN$GT_NOSUPPORT
.EXTRN MEN$GT_SYSTEM_HDWR_TEXT

```

```

01FC 00000 .ENTRY MEN$PRINT_SYSTEM_HDWR, Save R2,R3,R4,R5,R6,-; 1498
R7,R8
58 04 D0 00002 MOVL #4, SCREEN_COUNTER ; 1535
55 00000000G EF 9E 00005 MOVAB MEN$GA_DDB_HEAD, DDB_PTR ; 1538
50 00000000G EF 9E 0000C MOVAB MEN$GA_DDB_HEAD, R0 ; 1540
50 65 D1 00013 CMPL (DDB_PTR), R0 ;
03 12 00016 BNEQ 1$ ;
00AA 31 00018 BRW 7$ ;
00000000G EF 9F 0001B 1$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1542
01 DD 00021 PUSHL #1 ;
1A DD 00023 PUSHL #26 ;
00000000G FF 03 FB 00025 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 0002C PUSHAB MEN$GT_SYSHDWR_TITLE ;
01 DD 00032 PUSHL #1 ;
1A DD 00034 PUSHL #26 ;

```

```

00000000G FF 03 FB 00036 CALLS #3, @CRD$PRINT ;
0085 31 0003D BRW 7$ ; 1544
57 08 A5 D0 00040 2$: MOVL 8(DDB_PTR), PTABLE_PTR ; 1550
52 26 A7 9E 00044 MOVAB 38(R7), HDWR_NAME_PTR ; 1552
57 DD 00048 PUSHL PTABLE_PTR ; 1559
00000000G EF 01 FB 0004A CALLS #1, CRD$GET_DEVICE_NAME ;
53 50 D0 00051 MOVL R0, DEV_NAME ;
56 20 A5 D0 00054 MOVL 32(DDB_PTR), SUPBLK_PTR ; 1566
09 13 00058 BEQL 3$ ;
54 00000000G EF 9E 0005A MOVAB MEN$GT_SUPPORTED, SPRTSTAT_PTR ; 1568
07 11 00061 BRB 4$ ;
54 00000000G EF 9E 00063 3$: MOVAB MEN$GT_NOSUPPORT, SPRTSTAT_PTR ; 1570
16 58 D1 0006A 4$: CMPL SCREEN_COUNTER, #22 ; 1578
30 12 0006D BNEQ 5$ ;
7E D4 0006F CLRL -(SP) ; 1582
00000000G EF 01 FB 00071 CALLS #1, CRD$SCREEN_PAUSE ;
00000000G EF 9F 00078 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1583
01 DD 0007E PUSHL #1 ;
1A DD 00080 PUSHL #26 ;
00000000G FF 03 FB 00082 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 00089 PUSHAB MEN$GT_SYSHDWR_TITLE ;
01 DD 0008F PUSHL #1 ;
1A DD 00091 PUSHL #26 ;
00000000G FF 03 FB 00093 CALLS #3, @CRD$PRINT ;
58 04 D0 0009A MOVL #4, SCREEN_COUNTER ; 1584
02 11 0009D BRB 6$ ; 1578
58 D6 0009F 5$: INCL SCREEN_COUNTER ; 1587
00000000G EF 9F 000A1 6$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1599
01 DD 000A7 PUSHL #1 ;
1A DD 000A9 PUSHL #26 ;
00000000G FF 03 FB 000AB CALLS #3, @CRD$PRINT ;
1C BB 000B2 PUSHR #^M<R2,R3,R4> ;
00000000G EF 9F 000B4 PUSHAB MEN$GT_SYSTEM_HDWR_TEXT ;
01 DD 000BA PUSHL #1 ;
1A DD 000BC PUSHL #26 ;
00000000G FF 06 FB 000BE CALLS #6, @CRD$PRINT ;
55 65 D0 000C5 7$: MOVL (DDB_PTR), DDB_PTR ; 1544
50 00000000G EF 9E 000C8 MOVAB MEN$GA_DDB_HEAD, R0 ;
50 55 D1 000CF CMPL DDB_PTR, R0 ;
03 13 000D2 BEQL 8$ ;
FF69 31 000D4 BRW 2$ ;
00000000G EF 9F 000D7 8$: PUSHAB MEN$GT_END_OF_LIST ; 1602
01 DD 000DD PUSHL #1 ;
1A DD 000DF PUSHL #26 ;
00000000G FF 03 FB 000E1 CALLS #3, @CRD$PRINT ;
03 DD 000E8 PUSHL #3 ; 1604
00000000G EF 01 FB 000EA CALLS #1, CRD$SCREEN_PAUSE ;
50 01 D0 000F1 MOVL #1, R0 ; 1607
04 000F4 RET ; 1608
  
```

; Routine Size: 245 bytes, Routine Base: CODE + 09B3

```

; 1609 1 END
; 1610 0 ELUDOM

```

PSECT SUMMARY

```

; Name      Bytes      Attributes
;
; DATA      12      NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
; WORK      353      NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; CODE      2728      NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

```

```

Symbol      Type Defined Referenced ...
-----

```

```

$ASCIC      Macro      Lib02      106
$CRD_LITERALS Macro      Lib03      88
$CRD_MESSAGE Macro      Lib03      453      462      470      553      599      720      750      760      782      790
      828      836      852      1047      1542      1583      1594
$CRD_PRINT  Unbound      453      467      470      553      599      720      750      760      782      795
      828      846      852      1047      1542      1583      1599
      Macro      Lib03      453      467      470      553      597      599      720      750      760      782
      795      828      846      852      1047      1476      1477      1483      1484      1489
      1542      1583      1599      1602
$DS_ASKSTR  KeyWMacr Lib02      512      999
$DS_BREAK   Macro      Lib02      512      999
$DS_HPO_DECL Macro      Lib02      673      1348      1530
$DS_HPO_F   Fieldset Lib02      673      1348      1530
$DS_TYPEDEF Macro      Lib02      453      467      470      553      597      599      720      750      760      782
      795      828      846      852      1047      1476      1477      1483      1484      1489
      1542      1583      1599      1602
$EQLST      Macro      Lib04      88      89      90      453      467      470      553      597      599      720
      750      760      782      795      828      846      852      1047      1476      1477
      1483      1484      1489      1542      1583      1599      1602
$ER         Comptime  93
$MEN_ASKSTR  KeyWMacr Lib03      509      997
$MEN_FTMTBL ATTR Macro      Lib03      118
$MEN_FTMTBL_ENTRY ATTR Macro      Lib03      430
$MEN_FTMTBL_ENTRY_FLD Fieldset Lib03      118      430
$MEN_LITERALS Macro      Lib03      89
$MEN_OPERINPUT_BUFFER ATTR Macro      Lib03      100      902
$MEN_PREPTBL_ATTR Macro      Lib03      274
$MEN_PREPTBL_ENTRY_ATTR Macro      Lib03      1346
$MEN_PREPTBL_ENTRY_FLD Fieldset Lib03      274      1346
$MEN_QUEUE_LINK_ATTR Macro      Lib03      1183      1249
$MEN_QUEUE_LINK_FLD Fieldset Lib03      1183      1249
$MEN_SUPBLK_ATTR Macro      Lib03      674      1185      1251      1349      1529
$MEN_SUPBLK_FLD Fieldset Lib03      674      1185      1251      1349      1529

```


Symbol	Type	Defined	Referenced	...
\$MEN_TMTBL_ATTR	Macro	Lib03 224		
\$MEN_TMTBL_ENTRY_ATTR	Macro	Lib03 656	678	888
\$MEN_TMTBL_ENTRY_FLD	Fieldset	Lib03 224	656	678 888
\$MEN_TSTCNFG_ATTR	Macro	Lib03 1350		
\$MEN_TSTCNFG_FLD	Fieldset	Lib03 1350		
\$MODULE	Bind	93		
\$SCREEN_LITERALS	Macro	Lib03 90		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	88		
AUTOSK_EXIT_CONTROL_C	Literal	88		
AUTOSK_EXIT_DUMMY_2	Literal	88		
AUTOSK_EXIT_DUMMY_3	Literal	88		
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	88		
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	88		
AUTOSK_EXIT_INTERNAL_ERROR	Literal	88		
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	88		
AUTOSK_EXIT_LAST_REASON	Literal	88	88	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	88		
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	88		
AUTOSK_EXIT_NOERRORS_PREP	Literal	88		
BUFFER	Bind	902 910 913a	913 914a	
BUF_PTR	Register	891 914- 915	915= 916	920a
LLWSS_CODE	Bind	1103 1106		
	Bind	1188 1202		
	Bind	1254 1266		
CRD\$AL_CRD_DISPATCH_VECTORS	External	Lib03 208a	368a	
CRD\$DISABLE_CTRL_C	ExtRout	Lib03 451c	718c	
CRD\$ENABLE_CTRL_C	ExtRout	Lib03 472c	854c	
CRD\$GB_CRD_DEBUG	External	Lib03 604		
CRD\$GET_DEVICE_NAME	ExtRout	Lib03 819c	1559c	
CRD\$GT_NEW_LINE	External	Lib03 1476a		
CRD\$GT_NEW_LINE_MESSAGE	External	Lib03 453a	467a 470a 553a 599a 720a 750a 760a 782a 795a	
		828a 846a 852a 1047a	1542a 1583a 1599a	
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	Unbound	828 846 852 1047	1542 1583 1599	553 599 720 750 760 782 795
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	Unbound	828 846 852 1047	1542 1583 1599	553 599 720 750 760 782 795
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	88		
CRD\$K_ACTION_RANGE_ERROR	Literal	88		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	88		
CRD\$K_ADVANCE_GENERAL_COM	Literal	88		
CRD\$K_ADVANCE_STATE	Literal	88		
CRD\$K_ALLOCATION_ERROR	Literal	88		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	88		
CRD\$K_AUTOSIZER_ERROR	Literal	88		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	88		
CRD\$K_BAD_ACTION_NUMBER	Literal	88		
CRD\$K_BAD_TYPECODE_ERROR	Literal	88		
CRD\$K_BASE_SYSTEM_IDC	Literal	88		
CRD\$K_BASE_SYSTEM_LES	Literal	88		
CRD\$K_BASE_SYSTEM_NULL	Literal	88		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	88		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	88		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	88		

Symbol	Type	Defined	Referenced	...
CRD\$K_BASE_SYSTEM_UDA_3	Literal	88		
CRD\$K_CRD_INITIALIZATION	Literal	88		
CRD\$K_CREATE_HST	Literal	88		
CRD\$K_DATA_LENGTH_ERROR	Literal	88		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	88		
CRD\$K_DDB_BLINK	Literal	88		
CRD\$K_DDB_FLINK	Literal	88	806 1381 1540 1544	
CRD\$K_DDB_LAST_ENTRY	Literal	88		
CRD\$K_DDB_MEMORY_SIZE	Literal	88		
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	88	813 1203	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	88		
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	88		
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	88		
CRD\$K_DDB_PTABLE_ENTRY	Literal	88	818 1383 1550	
CRD\$K_DDB_STATUS	Literal	88		
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	88	807 1199 1264 1385 1566	
CRD\$K_DEVICE_NAME	Literal	88		
CRD\$K_DIAGNOSTIC_ERROR	Literal	88		
CRD\$K_DIAGNOSTIC_NAME	Literal	88		
CRD\$K_DONE_GENERAL_COMS	Literal	88		
CRD\$K_DO_NOTHING	Literal	88		
CRD\$K_DUMMY_10	Literal	88		
CRD\$K_DUMMY_11	Literal	88		
CRD\$K_DUMMY_12	Literal	88		
CRD\$K_DUMMY_13	Literal	88		
CRD\$K_DUMMY_3	Literal	88		
CRD\$K_DUMMY_4	Literal	88		
CRD\$K_DUMMY_5	Literal	88		
CRD\$K_DUMMY_6	Literal	88		
CRD\$K_DUMMY_7	Literal	88		
CRD\$K_DUMMY_8	Literal	88		
CRD\$K_DUMMY_9	Literal	88		
CRD\$K_EXIT_CRD	Literal	88		
CRD\$K_FAILURE	Literal	Lib03	615 924 951 965	
CRD\$K_HOOK_POINT	Literal	88		
CRD\$K_HS_INTERNAL_ERROR	Literal	88		
CRD\$K_IDC_EVDLB	Literal	88		
CRD\$K_IDC_EVDLC	Literal	88		
CRD\$K_IDC_EVDLD	Literal	88		
CRD\$K_IDC_EVRAD_0	Literal	88		
CRD\$K_IDC_EVRAD_1	Literal	88		
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	88		
CRD\$K_INTERNAL_ERROR	Literal	88		
CRD\$K_LAST_ACTION_ROUTINE	Literal	88		
CRD\$K_LAST_ENTRY	Literal	88		
CRD\$K_LAST_FUNCTION	Literal	88		
CRD\$K_LAST_HOOK_POINT	Literal	88		
CRD\$K_LAST_INTERNAL_ERROR	Literal	88		
CRD\$K_LAST_TYPE	Literal	88		
CRD\$K_LESI_ENWCA	Literal	88		
CRD\$K_LESI_EVRMB_0	Literal	88		
CRD\$K_LESI_EVRMB_1	Literal	88		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	88		

Symbol	Type	Defined	Referenced	...
CRD\$K_LEVEL_4_PASSED	Literal	88		
CRD\$K_LOAD_AUTOSIZER	Literal	88		
CRD\$K_LOAD_ERROR	Literal	88		
CRD\$K_LOAD_GENERAL_COM	Literal	88		
CRD\$K_LOAD_LOAD_COM	Literal	88		
CRD\$K_LOAD_SELECT_COM	Literal	88		
CRD\$K_LOAD_SET_EVENT_COM	Literal	88		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	88		
CRD\$K_LOAD_START_COM	Literal	88		
CRD\$K_LOAD_SUP_FILE	Literal	88		
CRD\$K_MM_INTERNAL_ERROR	Literal	88		
CRD\$K_NEW_LINE	Literal	88		
CRD\$K_NUMB_SCREEN_LINES	Literal	Lib03	746	778 824 1461 1578
CRD\$K_PREPARATION_ERROR	Literal	88		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	88		
CRD\$K_RUNTIME	Literal	88		
CRD\$K_SAME_LINE	Literal	88		
CRD\$K_SET_EVENT_ARGS	Literal	88		
CRD\$K_SET_FLAGS_ARGS	Literal	88		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	88		
CRD\$K_START	Literal	88		
CRD\$K_START_AUTOSIZER	Literal	88		
CRD\$K_START_ERROR	Literal	88		
CRD\$K_START_QUALIFIERS	Literal	88		
CRD\$K_STAR_LINE	Literal	88		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	88		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	88		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	88		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	88		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	88		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	88		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	88		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	88		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	88		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	88		
CRD\$K_STATE_DUMMY_1	Literal	88		
CRD\$K_STATE_DUMMY_10	Literal	88		
CRD\$K_STATE_DUMMY_12	Literal	88		
CRD\$K_STATE_DUMMY_13	Literal	88		
CRD\$K_STATE_DUMMY_2	Literal	88		
CRD\$K_STATE_DUMMY_3	Literal	88		
CRD\$K_STATE_DUMMY_4	Literal	88		
CRD\$K_STATE_DUMMY_6	Literal	88		
CRD\$K_STATE_DUMMY_7	Literal	88		
CRD\$K_STATE_DUMMY_8	Literal	88		
CRD\$K_STATE_EXIT_CRD	Literal	88		
CRD\$K_STATE_INTERNAL_ERROR	Literal	88		
CRD\$K_STATE_LAST_STATE	Literal	88		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	88		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	88		
CRD\$K_STATE_LOAD_ERROR	Literal	88		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	88		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	88		

Symbol	Type	Defined	Referenced	...
CRD\$K_STATE_LOAD_SELECT_COM	Literal	88		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	88		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	88		
CRD\$K_STATE_LOAD_START_COM	Literal	88		
CRD\$K_STATE_PREPARATION_ERROR	Literal	88		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	88		
CRD\$K_STATE_START	Literal	88		
CRD\$K_STATE_START_AUTOSIZER	Literal	88		
CRD\$K_STATE_START_ERROR	Literal	88		
CRD\$K_SUCCESS	Literal	Lib03 214	374 975 1070 1145 1494 1607	
CRD\$K_TEST_START_TEXT	Literal	88		
CRD\$K_TQ_INTERNAL_ERROR	Literal	88		
CRD\$K_TYPECODE	Literal	88		
CRD\$K_UDA_0_EVDLB	Literal	88		
CRD\$K_UDA_0_EVDLC	Literal	88		
CRD\$K_UDA_0_EVDLD	Literal	88		
CRD\$K_UDA_0_EVRLA_0	Literal	88		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	88		
CRD\$K_UDA_1_EVDLB	Literal	88		
CRD\$K_UDA_1_EVDLC	Literal	88		
CRD\$K_UDA_1_EVDLD	Literal	88		
CRD\$K_UDA_1_EVRLA_0	Literal	88		
CRD\$K_UDA_1_EVRLA_1	Literal	88		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	88		
CRD\$K_UDA_2_EVDLB	Literal	88		
CRD\$K_UDA_2_EVDLC	Literal	88		
CRD\$K_UDA_2_EVDLD	Literal	88		
CRD\$K_UDA_2_EVRLA_0	Literal	88		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	88		
CRD\$K_UDA_3_EVDLB	Literal	88		
CRD\$K_UDA_3_EVDLC	Literal	88		
CRD\$K_UDA_3_EVDLD	Literal	88		
CRD\$K_UDA_3_EVRLA_0	Literal	88		
CRD\$K_UDA_3_EVRLA_1	Literal	88		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	88		
CRD\$PRINT	External	Lib03 453ac 467ac 470ac 553ac 597ac 599ac 720ac 750ac 760ac 782ac		
		795ac 828ac 846ac 852ac 1047ac 1476ac 1477ac 1483ac 148'ac 1489ac		
		1542ac 1583ac 1599ac 1602ac		
CRD\$SCREEN_PAUSE	ExtRout	Lib03 519c 749c 781c 827c 1005c 1464c 1491c 1582c 1604c		
CRD\$STOP	ExtRout	Lib03 564c		
DDB	Bind	1190 1208= 1210=		
	Bind	1255 1271= 1273=		
DDB_FOUND	Register	1182 1192= 1195. 1201= 1206. 1212.		
	Register	1248 1257= 1260. 1266= 1269. 1274.		
DDB_PTR	Local	657 1032a 1067.		
	Local	677 703a 805= 806= 806a. 807a. 813a. 818a.		
	Register	1184 1197= 1199a. 1203a. 1208.		
	Register	1250 1262= 1264a. 1271.		
	Register	1347 1379= 1381= 1381a. 1383a. 1385a.		
	Register	1528 1538= 1540a. 1544= 1544a. 1550a. 1566a.		
DEVICE_DATA_BLOCK_STRUCTURE	Structur	Lib03 657 677 1184 1250 1347 1528		
DEVICE_NUMBER	Local	655 1011a 1021. 1031a		
DEVTSTPREP_CODE	Local	1334 1363= 1410.		

DEV_NAME	Local	686	819=	846.
Register	1526	1559=	1599.	
DS\$ASKSTR	ExtRout	512	512c	999e 999c
DS\$BREAK	ExtRout	512	512c	512e 999e 999c
DS\$K_PRINTB	Literal	453		
Literal	453			
Literal	467			
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Literal	1583			
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Literal	1599			
Literal	1602			
DS\$K_PRINTF	Literal	453	453	
Literal	453	453		
Literal	467	467		
Literal	467	467		
Literal	470	470		
Literal	470	470		
Literal	553	553		
Literal	553	553		

DSSK_PRINTI Literal 453

Symbol	Type	Defined	Referenced	...
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Literal	795	
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DS\$K_PRINTX	Literal	453
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Symbol

Type

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Referenced ...

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	Literal	1602	
DS\$K_TYPE_ABORT_PROGRAM	Literal	453	
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	Literal	1602	
DS\$K_TYPE_ABORT_TEST	Literal	453	
	Literal	453	
	Literal	467	

Symbol	Type	Defined	Referenced	...
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Literal		1602		
DS\$K	TYPE	COMMAND	ERR	Literal 453
Literal		453		
Literal		467		
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Literal	852
Literal	852

Symbol

Type Defined Referenced ...

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DS\$K_TYPE_CRD_AUTOTEST	Literal	453	453
Literal	453	453	
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Literal	1599	1599	

L i t e r a l	453
L i t e r a l	467
L i t e r a l	467
L i t e r a l	470
L i t e r a l	470
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L i t e r a l	553
L i t e r a l	597
L i t e r a l	599

Symbol Type Defined Referenced ...

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Literal	1602		
DS\$K TYPE_ERRDEV	Literal	453	
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Symbol	Type	Defined	Referenced ...
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Literal	1599		
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DS\$K_TYPE_ERRHARD	Literal	453	
Literal	453		
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Literal	1489		

Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_ERROR_BODY	Literal	453		
Literal	453			
Literal	467			
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Literal	470			
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Literal	1602			
DS\$K_TYPE_ERROR_END	Literal	453		
Literal	453			
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_ERRPREP	Literal	453		
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Symbol Type Defined Referenced ...

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Literal	1602		
DS\$K_TYPE_ERRSOFT	Literal	453	
Literal	453		
Literal	467		
Literal	467		
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Literal	846		
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Literal	852		
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Symbol	Type	Defined	Referenced ...
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Literal	1599		
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DS\$K_TYPE_ERRSUP	Literal	453	
Literal	453		
Literal	467		
Literal	467		
Literal	470		
Literal	470		
Literal	553		
Literal	553		
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Literal	1477		
Literal	1483		
Literal	1484		
Literal	1489		
Literal	1542		
Literal	1542		
Literal	1583		
Literal	1583		
Literal	1599		
Literal	1599		
Literal	1602		

Symbol	Type	Defined	Referenced	...
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Literal	750		
Literal	760		
Literal	760		
Literal	782		
Literal	782		
Literal	795		
Literal	795		
Literal	828		
Literal	828		
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Literal	1483		
Literal	1484		
Literal	1489		
Literal	1542		
Literal	1542		
Literal	1583		
Literal	1583		
Literal	1599		
Literal	1599		
Literal	1602		
DS\$K TYPE EXCEPTION	Literal	453	
Literal	453		
Literal	467		
Literal	467		
Literal	470		
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Literal	553		
Literal	553		
Literal	597		
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Literal	760		
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Literal	782		
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Literal	795		
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Literal	828		
Literal	828		
Literal	846		

Symbol	Type	Defined	Referenced	...
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Literal		1489		
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Literal		1599		
Literal		1599		
Literal		1602		
DS\$K_TYPE_EXCEPTION_HEAD	Literal	453		
Literal		453		
Literal		467		
Literal		467		
Literal		470		
Literal		470		
Literal		553		
Literal		553		
Literal		597		
Literal		599		
Literal		599		
Literal		720		
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Literal		1047		
Literal		1476		
Literal		1477		
Literal		1483		
Literal		1484		
Literal		1489		
Literal		1542		
Literal		1542		

Symbol	Type	Defined	Referenced	...

Literal		1583		
Literal		1583		
Literal		1599		
Literal		1599		
Literal		1602		
DS\$K_TYPE_FIRST_PASS	Literal		453	
Literal		453		
Literal		467		
Literal		467		
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Literal		599		
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Literal		795		
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Literal		1477		
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Literal		1599		
Literal		1602		
DS\$K_TYPE_GENERAL	Literal		453	
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Literal		467		
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Literal		470		
Literal		470		
Literal		553		

DS\$K TYPE GENERAL ERROR	Literal	453
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Symbol	Type	Defined	Referenced	...
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Literal		1602		
DS\$K_TYPE_NO_TESTS	Literal	453		
Literal		453		
Literal		467		
Literal		467		
Literal		470		
Literal		470		
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Literal		828		
Literal		846		
Literal		846		
Literal		852		
Literal		852		
Literal		1047		
Literal		1047		
Literal		1476		
Literal		1477		

Literal	1483
Literal	1484
Literal	1489
Literal	1542
Literal	1542
Literal	1583
Literal	1583
Literal	1599
Literal	1599
Literal	1602

L i t e r a l	453
L i t e r a l	467
L i t e r a l	467
L i t e r a l	470
L i t e r a l	470
L i t e r a l	553
L i t e r a l	553
L i t e r a l	597
L i t e r a l	599
L i t e r a l	599
L i t e r a l	720
L i t e r a l	720
L i t e r a l	750
L i t e r a l	750
L i t e r a l	760
L i t e r a l	760
L i t e r a l	782
L i t e r a l	782
L i t e r a l	795
L i t e r a l	795
L i t e r a l	828
L i t e r a l	828
L i t e r a l	846
L i t e r a l	846
L i t e r a l	852
L i t e r a l	852
L i t e r a l	1047
L i t e r a l	1047
L i t e r a l	1476
L i t e r a l	1477
L i t e r a l	1483
L i t e r a l	1484
L i t e r a l	1489
L i t e r a l	1542
L i t e r a l	1542
L i t e r a l	1583
L i t e r a l	1583
L i t e r a l	1599
L i t e r a l	1599
L i t e r a l	1602

Literál 453

Literal	467		
Literal	467		
Literal	470		
Literal	470		
Literal	553		
Literal	553		
Literal	597		
Literal	599		
Literal	599		
Literal	720		
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Literal	782		
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Literal	795		
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Literal	828		
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Literal	1047		
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Literal	1476		
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Literal	1483		
Literal	1484		
Literal	1489		
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Literal	1583		
Literal	1599		
Literal	1599		
Literal	1602		
DS\$K	TYPE	PROGRAM	INFO
Literal	453	Literal	453
Literal	467		
Literal	467		
Literal	470		
Literal	470		
Literal	553		
Literal	553		
Literal	597		
Literal	599		
Literal	599		
Literal	720		
Literal	720		
Literal	750		

Symbol	Type	Defined	Referenced	...
Literal		750		
Literal		760		
Literal		760		
Literal		782		
Literal		782		
Literal		795		
Literal		795		
Literal		828		
Literal		828		
Literal		846		
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Literal		852		
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Literal		1047		
Literal		1047		
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Literal		1483		
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Literal		1489		
Literal		1542		
Literal		1542		
Literal		1583		
Literal		1583		
Literal		1599		
Literal		1599		
Literal		1602		
DS\$K_TYPE_PROGRAM_START	Literal	453		
Literal		453		
Literal		467		
Literal		467		
Literal		470		
Literal		470		
Literal		553		
Literal		553		
Literal		597		
Literal		599		
Literal		599		
Literal		599		
Literal		720		
Literal		720		
Literal		750		
Literal		750		
Literal		760		
Literal		760		
Literal		782		
Literal		782		
Literal		795		
Literal		795		
Literal		828		
Literal		828		
Literal		846		
Literal		846		
Literal		852		

Symbol Type Defined Referenced ...

	Literal	1599	
	Literal	1599	
	Literal	1602	
DS\$K_TYPE_QIO_NODRIVER	Literal	453	
	Literal	453	
	Literal	467	
	Literal	467	
	Literal	470	
	Literal	470	
	Literal	553	
	Literal	553	
	Literal	597	
	Literal	599	
	Literal	599	
	Literal	720	
	Literal	720	
	Literal	750	
	Literal	750	
	Literal	760	
	Literal	760	
	Literal	782	
	Literal	782	
	Literal	795	
	Literal	795	
	Literal	828	
	Literal	828	
	Literal	846	
	Literal	846	
	Literal	852	
	Literal	852	
	Literal	1047	
	Literal	1047	
	Literal	1476	
	Literal	1477	
	Literal	1483	
	Literal	1484	
	Literal	1489	
	Literal	1542	
	Literal	1542	
	Literal	1583	
	Literal	1583	
	Literal	1599	
	Literal	1599	
	Literal	1602	
DS\$K_TYPE_QIO_WRONGVER	Literal	453	
	Literal	453	
	Literal	467	
	Literal	467	
	Literal	470	
	Literal	470	
	Literal	553	
	Literal	553	
	Literal	597	

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L	i	t	e	r	a	l	7	2	0					
L	i	t	e	r	a	l	7	5	0					
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L	i	t	e	r	a	l	7	6	0					
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L	i	t	e	r	a	l	7	8	2					
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L	i	t	e	r	a	l	8	4	6					
L	i	t	e	r	a	l	8	4	6					
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L	i	t	e	r	a	l	8	5	2					
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L	i	t	e	r	a	l	1	0	4	7				
L	i	t	e	r	a	l	1	4	7	6				
L	i	t	e	r	a	l	1	4	7	7				
L	i	t	e	r	a	l	1	4	8	3				
L	i	t	e	r	a	l	1	4	8	4				
L	i	t	e	r	a	l	1	4	8	9				
L	i	t	e	r	a	l	1	5	4	2				
L	i	t	e	r	a	l	1	5	4	2				
L	i	t	e	r	a	l	1	5	8	3				
L	i	t	e	r	a	l	1	5	8	3				
L	i	t	e	r	a	l	1	5	9	9				
L	i	t	e	r	a	l	1	5	9	9				
L	i	t	e	r	a	l	1	6	0	2				
K	_	T	Y	P	E	_	S	C	R	I	P	T	_	E
L	i	t	e	r	a	l	4	5	3					
L	i	t	e	r	a	l	4	6	7					
L	i	t	e	r	a	l	4	6	7					
L	i	t	e	r	a	l	4	7	0					
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L	i	t	e	r	a	l	5	5	3					
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L	i	t	e	r	a	l	7	8	2					
L	i	t	e	r	a	l	7	8	2					
L	i	t	e	r	a	l	7	9	5					
L	i	t	e	r	a	l	7	9	5					

Symbol	Type	Defined	Referenced	...
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Literal		846		
Literal		846		
Literal		852		
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Literal		1483		
Literal		1484		
Literal		1489		
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Literal		1542		
Literal		1583		
Literal		1583		
Literal		1599		
Literal		1599		
Literal		1602		
DS\$K	TYPE	SCRIPT	PNF	Literal 453
Literal		453		
Literal		467		
Literal		467		
Literal		470		
Literal		470		
Literal		553		
Literal		553		
Literal		597		
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Literal		599		
Literal		720		
Literal		720		
Literal		750		
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Literal		760		
Literal		760		
Literal		782		
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Literal		795		
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Literal		828		
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Literal		846		
Literal		846		
Literal		852		
Literal		852		
Literal		1047		
Literal		1047		
Literal		1476		
Literal		1477		
Literal		1483		
Literal		1484		

Literal	1489
Literal	1542
Literal	1542
Literal	1583
Literal	1583
Literal	1599
Literal	1599
Literal	1602

DS\$K_TYPE_SCRIPT_PROMPT	Literal	453
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Literal	453
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Literal	467
Literal	470
Literal	470
Literal	553
Literal	553
Literal	597
Literal	599
Literal	599
Literal	720
Literal	720
Literal	750
Literal	750
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Literal	760
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Literal	782
Literal	795
Literal	795
Literal	828
Literal	828
Literal	846
Literal	846
Literal	852
Literal	852
Literal	1047
Literal	1047
Literal	1476
Literal	1477
Literal	1483
Literal	1484
Literal	1489
Literal	1542
Literal	1542
Literal	1583
Literal	1583
Literal	1599
Literal	1599
Literal	1602

DS\$K_TYPE_SCRIPT_SKIP	Literal	453
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Literal	453
Literal	467
Literal	467

Symbol	Type	Defined	Referenced	...
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L i t e r a l	470			
L i t e r a l	553			
L i t e r a l	553			
L i t e r a l	597			
L i t e r a l	599			
L i t e r a l	599			
L i t e r a l	720			
L i t e r a l	720			
L i t e r a l	750			
L i t e r a l	750			
L i t e r a l	760			
L i t e r a l	760			
L i t e r a l	782			
L i t e r a l	782			
L i t e r a l	795			
L i t e r a l	795			
L i t e r a l	828			
L i t e r a l	828			
L i t e r a l	846			
L i t e r a l	846			
L i t e r a l	852			
L i t e r a l	852			
L i t e r a l	1047			
L i t e r a l	1047			
L i t e r a l	1476			
L i t e r a l	1477			
L i t e r a l	1483			
L i t e r a l	1484			
L i t e r a l	1489			
L i t e r a l	1542			
L i t e r a l	1542			
L i t e r a l	1583			
L i t e r a l	1583			
L i t e r a l	1599			
L i t e r a l	1599			
L i t e r a l	1602			
DS\$K_TYPE_SEQUENCE_ERROR Literal	453			
L i t e r a l	453			
L i t e r a l	467			
L i t e r a l	467			
L i t e r a l	470			
L i t e r a l	470			
L i t e r a l	553			
L i t e r a l	553			
L i t e r a l	597			
L i t e r a l	599			
L i t e r a l	599			
L i t e r a l	720			
L i t e r a l	720			
L i t e r a l	750			
L i t e r a l	750			
L i t e r a l	760			

Symbol	Type	Defined	Referenced	...
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Literal	760			
Literal	782			
Literal	782			
Literal	795			
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Literal	852			
Literal	1047			
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Literal	1599			
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Literal	1602			
DS\$K	TYPE	START	ERR	
Literal	453			Literal 453
Literal	467			
Literal	467			
Literal	470			
Literal	470			
Literal	553			
Literal	553			
Literal	597			
Literal	599			
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Literal	795			
Literal	828			
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Literal	846			
Literal	852			
Literal	852			
Literal	1047			

Symbol	Type	Defined	Referenced	...

Literal		1047		
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Literal		1477		
Literal		1483		
Literal		1484		
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Literal		1542		
Literal		1542		
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Literal		1583		
Literal		1599		
Literal		1599		
Literal		1602		
DS\$K	TYPE_START_LIST	Literal	453	
Literal		453		
Literal		467		
Literal		467		
Literal		470		
Literal		470		
Literal		553		
Literal		553		
Literal		597		
Literal		599		
Literal		599		
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Literal		720		
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Literal		760		
Literal		760		
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Literal		1599		

Symbol
Type
Defined
Referenced
...

DS\$K	L i t e r a l	1602		
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	L i t e r a l	453		
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	L i t e r a l	467		
	L i t e r a l	470		
	L i t e r a l	470		
	L i t e r a l	553		
	L i t e r a l	553		
	L i t e r a l	597		
	L i t e r a l	599		
	L i t e r a l	599		
	L i t e r a l	720		
	L i t e r a l	720		
	L i t e r a l	750		
	L i t e r a l	750		
	L i t e r a l	760		
	L i t e r a l	760		
	L i t e r a l	782		
	L i t e r a l	782		
	L i t e r a l	795		
	L i t e r a l	795		
	L i t e r a l	828		
	L i t e r a l	828		
	L i t e r a l	846		
	L i t e r a l	846		
	L i t e r a l	852		
	L i t e r a l	852		
	L i t e r a l	1047		
	L i t e r a l	1047		
	L i t e r a l	1476		
	L i t e r a l	1477		
	L i t e r a l	1483		
	L i t e r a l	1484		
	L i t e r a l	1489		
	L i t e r a l	1542		
	L i t e r a l	1542		
	L i t e r a l	1583		
	L i t e r a l	1583		
	L i t e r a l	1599		
	L i t e r a l	1599		
	L i t e r a l	1602		
DS\$K	T Y P E _ U S E R _ P R O M P T		L i t e r a l	453
	L i t e r a l	453		
	L i t e r a l	467		
	L i t e r a l	467		
	L i t e r a l	470		
	L i t e r a l	470		
	L i t e r a l	553		
	L i t e r a l	553		
	L i t e r a l	597		
	L i t e r a l	599		
	L i t e r a l	599		

Symbol	Type	Defined	Referenced	...
Literal		720		
Literal		720		
Literal		750		
Literal		750		
Literal		760		
Literal		760		
Literal		782		
Literal		782		
Literal		795		
Literal		795		
Literal		828		
Literal		828		
Literal		846		
Literal		846		
Literal		852		
Literal		852		
Literal		1047		
Literal		1047		
Literal		1476		
Literal		1477		
Literal		1483		
Literal		1484		
Literal		1489		
Literal		1542		
Literal		1542		
Literal		1583		
Literal		1583		
Literal		1599		
Literal		1599		
Literal		1602		
ENTRY	Bind	903	944=	
ENTRY_PTR	Local	430	532=	533a. 561a.
Local		656	1011a	1013a. 1030a. 1055a.
Local		678	701=	703a. 704a. 707a= 711a= 735= 737a. 740a. 768a. 771.
		808a.	812.	816a.
Local		888	936=	944.
Register		1346	1362=	1363a. 1484a.
FALSE	Literal	Lib03	180	340 495 613 932 991 1192 1257 1377
FTMTBL\$B_ENTRY_ALPHA	Field	Lib03	459a.	532a 533.
FTMTBL\$B_ENTRY_FTMSEL	Field	Lib03	561.	
FTMTBL\$L_ENTRY_TEXT	Field	Lib03	206a	460.
FTMTBL_INIT	Own	180	180=	195. 211=
FTM_TABLE_INDEX	Local	431	526=	528= 528. 532.
Register		447	455=	457= 457. 459. 460.
GET1ST_	Macro	Lib04	88	89 90 453 467 470 553 597 599 720
		750	760	782 795 828 846 852 1047 1476 1477
		1483	1484	1489 1542 1583 1599 1602
GET2ND_	Unbound	88	89	90 453 467 470 553 597 599 720
		750	760	782 795 828 846 852 1047 1476 1477
		1483	1484	1489 1542 1583 1599 1602
HDWRNAM_FOUND	Local	1335	1377=	1433= 1439.
HDWRNAM_PTR	Register	1345	1396=	1399a. 1419a.
HDWRNAM_STRING_BUF	Bind	103	1364a	1366a 1414. 1442a 1477a

Symbol	Type	Defined	Referenced ...
HDWRNAM_STRING_BUF_END	Local	1337	1366= 1419.
HDWRNAM_STRING_BUF_PTR	Local	1336	1364= 1419. 1427= 1432a= 1442.
HDWRNAM_STRING_BUF_SZ	Literal	97	1366 1413
HDWRNAM_STRING_SZ	Local	1338	1442= 1477.
HDWR_NAME_PTR	Local	685	814= 846.
Register		1525	1552= 1599.
HP\$K_LENGTH	Literal	Lib02 673	1348 1530
HP\$T_TYPE	Field	Lib02 1396a	1552a
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		88
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		88
HS\$K_ACTION_ADVANCE_STATE	Literal		88
HS\$K_ACTION_CHANGE_TABLE	Literal		88
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal		88
HS\$K_ACTION_DONE_GENERAL_COMS	Literal		88
HS\$K_ACTION_DO_NOTHING	Literal		88
HS\$K_ACTION_DUMMY_3	Literal		88
HS\$K_ACTION_DUMMY_4	Literal		88
HS\$K_ACTION_DUMMY_5	Literal		88
HS\$K_ACTION_DUMMY_6	Literal		88
HS\$K_ACTION_INIT_HS	Literal		88
HS\$K_ACTION_INTERNAL_ERROR	Literal		88
HS\$K_ACTION_LAST_ACTION	Literal		88
HS\$K_ACTION_LOAD_ERROR	Literal		88
HS\$K_ACTION_LOAD_GENERAL_COM	Literal		88
HS\$K_ACTION_LOAD_LOAD_COM	Literal		88
HS\$K_ACTION_LOAD_SELECT_COM	Literal		88
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal		88
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal		88
HS\$K_ACTION_LOAD_START_COM	Literal		88
HS\$K_ACTION_PREPARATION_ERROR	Literal		88
HS\$K_ACTION_START_ERROR	Literal		88
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal		88
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal		88
HS\$K_STATE_CHANGE_TABLE	Literal		88
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal		88
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal		88
HS\$K_STATE_DONE_GENERAL_COMS	Literal		88
HS\$K_STATE_DUMMY_1	Literal		88
HS\$K_STATE_DUMMY_2	Literal		88
HS\$K_STATE_DUMMY_3	Literal		88
HS\$K_STATE_DUMMY_4	Literal		88
HS\$K_STATE_DUMMY_6	Literal		88
HS\$K_STATE_INIT_HS	Literal		88
HS\$K_STATE_INTERNAL_ERROR	Literal		88
HS\$K_STATE_LAST_STATE	Literal		88
HS\$K_STATE_LOAD_ERROR	Literal		88
HS\$K_STATE_LOAD_GENERAL_COM	Literal		88
HS\$K_STATE_LOAD_LOAD_COM	Literal		88
HS\$K_STATE_LOAD_SELECT_COM	Literal		88
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal		88
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal		88
HS\$K_STATE_LOAD_START_COM	Literal		88
HS\$K_STATE_PREPARATION_ERROR	Literal		88

Symbol	Type	Defined	Referenced	...
HS\$K_STATE_START_ERROR	Literal	88		
INDEX	Local	177 202=	204= 204. 206.	
	Local	337 362=	364= 364. 366.	
INPUT_ALPHA	Register	892 915=	940. 941.	
INPUT_END	Local	886 913=	916.	
I_BUFFER	RoutForm	880 902.		
I_DDB	RoutForm	1149 1190.		
	RoutForm	1216 1255.		
I_ENTRY	RoutForm	880 903.		
I_NAME	RoutForm	1074 1104.		
I_NUMBER	RoutForm	880 904.		
LAST_TSTCLA	Local	681 728=	740.	
MEN\$BLDTSTQ_FNCTST_ALL	ExtRout	Lib03 586c	1061c	
MEN\$BLDTSTQ_FNCTST_DEV	ExtRout	Lib03 1067c		
MEN\$DUMP_TSTQ_HST	ExtRout	Lib03 606c		
MEN\$FNDDDB_TCL	GlobRout	1216 Lib03e	73f 703c	
MEN\$FNDDDB_TCL_SDN	GlobRout	1149 Lib03e	72f 1029c	
MEN\$FTMTBL_INIT	GlobRout	143 Lib03e	68f	
MEN\$FUNCTEST_MENU	GlobRout	378 Lib03e	67f	
MEN\$GA_DDB_HEAD	External	Lib03 805a	806 1193a 1195 1258a 1260 1379a 1381 1538a 1540	
		1544		
MEN\$GA_FTMTBL	Global	118 Lib03e	119= 206a 459a 460. 532a	
MEN\$GA_PREPTBL	Global	274 Lib03e	275- 366a 1362a	
MEN\$GA_TMTBL	Global	224 Lib03e	225= 701a 735a 936a 937.	
MEN\$GB_FNCTST_INIT	External	Lib03 480=		
MEN\$GB_TEST_IN_PROGRESS	External	Lib03 602=		
MEN\$GET_TST_A_NAME	GlobRout	1074 Lib03e	71f 815c	
MEN\$GK_FTMTBL_ENTRIES	Literal	Lib03 118	204 457 528	
MEN\$GK_PREPTBL_ENTRIES	Literal	Lib03 274	364 1360	
MEN\$GK_TEST_QUEUE	Literal	89		
MEN\$GK_TMTBL_ENTRIES	Literal	Lib03 224	699 733 934	
MEN\$GT_CTRL_C_FNCTST	External	Lib03 597a		
MEN\$GT_DEVTSTPREP_1	External	Lib03 281a		
MEN\$GT_DEVTSTPREP_2	External	Lib03 284a		
MEN\$GT_DEVTSTPREP_3	External	Lib03 287a		
MEN\$GT_DEVTSTPREP_4	External	Lib03 290a		
MEN\$GT_DEVTSTPREP_5	External	Lib03 293a		
MEN\$GT_DEVTSTPREP_6	External	Lib03 296a		
MEN\$GT_DEVTSTPREP_7	External	Lib03 299a		
MEN\$GT_DEVTSTPREP_NAME	External	Lib03 1477a		
MEN\$GT_DEVTSTPREP_NULL	External	Lib03 278a		
MEN\$GT_DEVTSTPREP_TEXT	External	Lib03 1483a		
MEN\$GT_END_OF_LIST	External	Lib03 1489a	1602a	
MEN\$GT_FTMENU_SELECTION	External	Lib03 467a		
MEN\$GT_FTMPROMPT	External	Lib03 512a		
MEN\$GT_FTMSEL_EXIT	External	Lib03 123a		
MEN\$GT_FTMSEL_FNCTST_ALL	External	Lib03 139a		
MEN\$GT_FTMSEL_PREP	External	Lib03 131a		
MEN\$GT_FTMSEL_SYSTEM_HDWR	External	Lib03 127a		
MEN\$GT_FTMSEL_TEST	External	Lib03 135a		
MEN\$GT_FTMTITLE	External	Lib03 453a		
MEN\$GT_FTM_CHOICE	External	Lib03 470a		
MEN\$GT_FUNCTEST_BEGIN	External	Lib03 599a		

Symbol	Type	Defined	Referenced ...
MEN\$GT_INVOPERINPUT	External Lib03	553a	1047a
MEN\$GT_NOSUPPORT	External Lib03	1570a	
MEN\$GT_NULL	External Lib03	760a	
MEN\$GT_OPERINPUT_BUFFER	Global	100 Lib03e	103a 512a 537. 538. 550. 999a 1011a 1044.
MEN\$GT_SUPPORTED	External Lib03	1568a	
MEN\$GT_SYSHDWR_TITLE	External Lib03	1542a	1583a
MEN\$GT_SYSTEM_HDWR_TEXT	External Lib03	1599a	
MEN\$GT_TMENU_SELECTION	External Lib03	846a	
MEN\$GT_TMENU_TSTALL	External Lib03	795a	
MEN\$GT_TMPROMPT	External Lib03	999a	
MEN\$GT_TMTITLE	External Lib03	720a	750a 782a 828a
MEN\$GT_TM_CHOICE	External Lib03	852a	
MEN\$GT_TSTCLA_ALL	External Lib03	1139a	
MEN\$GT_TSTCLA_CARD	External Lib03	1133a	
MEN\$GT_TSTCLA_COMM	External Lib03	1121a	
MEN\$GT_TSTCLA_CPU	External Lib03	1109a	
MEN\$GT_TSTCLA_DISK	External Lib03	1115a	
MEN\$GT_TSTCLA_IOADAP	External Lib03	1136a	
MEN\$GT_TSTCLA_MEMORY	External Lib03	1112a	
MEN\$GT_TSTCLA_NULLNAME	External Lib03	1142a	
MEN\$GT_TSTCLA_PRINTER	External Lib03	1130a	
MEN\$GT_TSTCLA_REAL	External Lib03	1124a	
MEN\$GT_TSTCLA_TAPE	External Lib03	1118a	
MEN\$GT_TSTCLA_TERM	External Lib03	1127a	
MEN\$K_CNTLC_SEL_CONTINUE	Literal	89	
MEN\$K_CNTLC_SEL_EXIT	Literal	89	
MEN\$K_CNTLC_SEL_FTMENU	Literal	89	
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal	89	
MEN\$K_DEVTSTPREP_1	Literal	89	280
MEN\$K_DEVTSTPREP_2	Literal	89	283
MEN\$K_DEVTSTPREP_3	Literal	89	286
MEN\$K_DEVTSTPREP_4	Literal	89	289
MEN\$K_DEVTSTPREP_5	Literal	89	292
MEN\$K_DEVTSTPREP_6	Literal	89	295
MEN\$K_DEVTSTPREP_7	Literal	89	298
MEN\$K_DEVTSTPREP_NULL	Literal	89	277
MEN\$K_FTMRET_EXIT	Literal	89	
MEN\$K_FTMRET_FAILURE	Literal	89	579
MEN\$K_FTMRET_MENU	Literal	89	
MEN\$K_FTMRET_TEST	Literal	89	608
MEN\$K_FTMSEL_EXIT	Literal	89	122 563
MEN\$K_FTMSEL_FNCTST_ALL	Literal	89	138 582 588
MEN\$K_FTMSEL_LAST_ENTRY	Literal	89	
MEN\$K_FTMSEL_PREP	Literal	89	130 569
MEN\$K_FTMSEL_SYSTEM_HDWR	Literal	89	126 566
MEN\$K_FTMSEL_TEST	Literal	89	134 572 588
MEN\$K_FTMSEL_ENTRY_SIZE	Literal Lib03	118	430
MEN\$K_HS_STATE_TABLE	Literal	88	
MEN\$K_MM_STATE_TABLE	Literal	88	
MEN\$K_OPERINPUT_BUFFER_SIZE	Literal Lib03	97	100 902
MEN\$K_PREPTBL_ENTRY_SIZE	Literal Lib03	274	1346
MEN\$K_PREP_ERROR_TEXT_LEN	Literal	89	
MEN\$K_QUEUE_LINK_SIZE	Literal Lib03	1183	1249

Symbol	Type	Defined	Referenced ...
MEN\$K_SELDEV_NUMB_START	Literal	89	
MEN\$K_SUPBLK_SIZE	Literal Lib03	674 1185	1251 1349 1529
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal	89 772	1021
MEN\$K_TMTBL_ENTRY_SIZE	Literal Lib03	224	656 678 888
MEN\$K_TQ_STATE_TABLE	Literal	88	
MEN\$K_TSTCLA_ALL	Literal	89 260	704 768 1015 1057 1138
MEN\$K_TSTCLA_CARD	Literal	89 254	1132
MEN\$K_TSTCLA_COMM	Literal	89 242	1120
MEN\$K_TSTCLA_CPU	Literal	89 230	1108
MEN\$K_TSTCLA_DISK	Literal	89 236	1114
MEN\$K_TSTCLA_IO_ADAPTOR	Literal	89 257	1135
MEN\$K_TSTCLA_LAST_ENTRY	Literal	89	
MEN\$K_TSTCLA_MEMORY	Literal	89 233	1111
MEN\$K_TSTCLA_NULL	Literal	89 728	
MEN\$K_TSTCLA_PRINTER	Literal	89 251	1129
MEN\$K_TSTCLA_REAL	Literal	89 245	1123
MEN\$K_TSTCLA_TAPE	Literal	89 239	1117
MEN\$K_TSTCLA_TERM	Literal	89 248	1126
MEN\$K_TSTCNFG_SIZE	Literal Lib03	1350	
MEN\$K_TSTCTG_CPU	Literal	89	
MEN\$K_TSTCTG_IO_ADAPTOR	Literal	89	
MEN\$K_TSTCTG_IO_CONTROLLER	Literal	89	
MEN\$K_TSTCTG_IO_UNIT	Literal	89	
MEN\$K_TSTCTG_MEMORY	Literal	89	
MEN\$K_TSTCTG_NULL	Literal	89	
MEN\$K_TSTTXT_DEVNAM_SZ	Literal	89	
MEN\$K_TSTTXT_TSTCLA_SZ	Literal	89	
MEN\$K_TSTTXT_UUTNAM_SZ	Literal	89	
MEN\$PREPTBL_INIT	GlobRout 303 Lib03e	70f	
MEN\$PRINT_DEVTSTPREP	GlobRout 1278 Lib03e	74f	570c
MEN\$PRINT_RUNTIME_TOTAL	ExtRout Lib03	601c	
MEN\$PRINT_SYSTEM_HDW	GlobRout 1498 Lib03e	75f	567c
MEN\$SCAN_NUMERIC_ASC_D	ExtRout Lib03	973c	
MEN\$SCRATCH_MEDIA_MSG	ExtRout Lib03	593c	
MEN\$TEST_MENU	GlobRout 619 Lib03e	69f	577c
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	88	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	88	
MEN\$K_EXIT_LAST_REASON	Literal	88	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	88	
MEN\$K_EXIT_OPERATOR_STOP	Literal	88 564	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	88	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	88	
MM\$K_ACTION_ADVANCE_STATE	Literal	88	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	88	
MM\$K_ACTION_BUILD_DDBS	Literal	88	
MM\$K_ACTION_BUILD_HSTS	Literal	88	
MM\$K_ACTION_CHANGE_TABLE	Literal	88	
MM\$K_ACTION_DONE_INITS	Literal	88	
MM\$K_ACTION_DO NOTHING	Literal	88	
MM\$K_ACTION_DUMMY_3	Literal	88	
MM\$K_ACTION_DUMMY_4	Literal	88	
MM\$K_ACTION_DUMMY_5	Literal	88	
MM\$K_ACTION_DUMMY_6	Literal	88	

Symbol	Type	Defined	Referenced	...
MM\$K_ACTION_DUMMY_7	Literal	88		
MM\$K_ACTION_DUMMY_8	Literal	88		
MM\$K_ACTION_INTERNAL_ERROR	Literal	88		
MM\$K_ACTION_LAST_ACTION	Literal	88		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	88		
MM\$K_ACTION_MENU_PROMPT	Literal	88		
MM\$K_ACTION_PRINT_MENU	Literal	88		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	88		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	88		
MM\$K_ACTION_START_AUTOSIZER	Literal	88		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	88		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	88		
MM\$K_STATE_BUILD_DDBS	Literal	88		
MM\$K_STATE_BUILD_HSTS	Literal	88		
MM\$K_STATE_CHANGE_TABLE	Literal	88		
MM\$K_STATE_DONE_INITS	Literal	88		
MM\$K_STATE_DUMMY_1	Literal	88		
MM\$K_STATE_DUMMY_2	Literal	88		
MM\$K_STATE_DUMMY_3	Literal	88		
MM\$K_STATE_DUMMY_5	Literal	88		
MM\$K_STATE_DUMMY_7	Literal	88		
MM\$K_STATE_DUMMY_8	Literal	88		
MM\$K_STATE_INTERNAL_ERROR	Literal	88		
MM\$K_STATE_LAST_STATE	Literal	88		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	88		
MM\$K_STATE_MENU_PROMPT	Literal	88		
MM\$K_STATE_PRINT_MENU	Literal	88		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	88		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	88		
MM\$K_STATE_START	Literal	88		
MM\$K_STATE_START_AUTOSIZER	Literal	88		
MODNAM	Macro	Lib01	93	
MOVE_LENGTH	Register	893	916= 918= 918. 920.	
NAME	Bind	1104 1109= 1112= 1115= 1118= 1121= 1124= 1127= 1130= 1133= 1136=		
		1139= 1142=		
NUL2ND	Macro	Lib04	88 89 90 453 467 470 553 597 599 720	
		750 760 782 795 828 846 852 1047 1476 1477		
		1483 1484 1489 1542 1583 1599 1602		
NUMBER	Bind	904 973a		
NUMB_BUF	Local	887 920= 921a 958a 960 973a		
NUMB_BUF_PTR	Register	894 920= 921. 958= 960= 960. 962a. 963a.		
NUMB_BUF_SZ	Literal	883 887 918		
NUMB_SZ	Register	895 921= 960. 973.		
PATTERN_BUF	Local	1342 1399= 1402a 1415a 1416. 1429.		
PATTERN_BUF_PTR	Local	1340 1398= 1402. 1415.		
PATTERN_BUF_SZ	Literal	1329 1342		
PATTERN_STRING_SZ	Local	1339 1402= 1428. 1431.		
PREPTBL\$B_ENTRY_CODE	Field	Lib03 1362a 1363.		
PREPTBL\$L_ENTRY_TEXT	Field	Lib03 366a 1484.		
PREPTBL_INDEX	Local	1333 1358= 1360= 1360. 1362. 1450.		
PREPTBL_INIT	Own	340 340= 355. 371=		
PTABLE_PTR	Register	673 818- 819.		
	Register	1348 1383= 1396aa		

Symbol Type Defined Referenced ...

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Register 1530 1550= 1552aa 1559.
QUEUE$L_FLINK Field Lib03 1195. 1260.
QUEUE_BLKPTR Register 1183 1193= 1195= 1195a. 1197.
Register 1249 1258= 1260= 1260a. 1262.
R_CLASS_CODE RoutForm 1074 1103.
RoutForm 1149 1188.
RoutForm 1216 1254.
R_SDN RoutForm 1149 1189.
SCREEN$K_CLEAR_SCREEN Literal 90 519 1005
SCREEN$K_COUNT_LINE Literal 90
SCREEN$K_PRESS_RETURN Literal 90 1464 1582
SCREEN$K_PRESS_RETURN_MM Literal 90 1491 1604
SCREEN$K_PRESS_RETURN_TM Literal 90
SCREEN$K_TM_MSG Literal 90 749 781 827
SCREEN_COUNTER Local 688 722= 746. 751= 755= 755. 778. 783= 787= 787. 824.
829= 833= 833.
Local 1332 1352= 1452= 1452. 1453= 1453. 1454= 1454. 1455= 1455. 1456=
1456. 1457= 1457. 1458= 1458. 1461. 1465=
Local 1533 1535= 1578. 1584= 1587= 1587.
SDN Bind 1189 1203.
SELALPHA_INDEX Local 679 696= 707. 708= 708.
SELALPHA_PTR Local 683 771= 795. 812= 846.
SELDEVNUMB Local 684 772= 795. 813= 846.
SEL_ALPHA_PTR Register 448 459= 467.
SEL_TEXT_PTR Register 449 460= 467.
SPRTSTAT_PTR Register 1527 1568= 1570= 1599.
STATUS Local 512 512= 512.
Local 999 999= 999.
SUPBLK$B_STRTFRST_CNFGBLK Field Lib03 1388a
SUPBLK$B_TEST_CLASS Field Lib03 809. 1202. 1266.
SUPBLK$T_DEVICE_NAME Field Lib03 814a
SUPBLK_PTR Register 674 807= 809a. 814aa
Register 1185 1199= 1202a.
Register 1251 1264= 1266a.
Register 1349 1385= 1388aa
Register 1529 1566=
TEXT_PTR Local 176 206= 208a= 208a.
Local 336 366= 368a= 368a.
TMENU_OPINP_CHK Routine 880 1011c
TMTBL$B_ENTRY_ALPHA Field Lib03 701a 707= 711= 735a 737. 771a 812a 936a 937.
TMTBL$B_ENTRY_TSTCLA Field Lib03 703. 704. 740. 768. 808. 816. 1013. 1030. 1055.
TMTBL_INDEX Local 682 697= 699= 699. 701. 731= 733= 733. 735.
Register 899 931= 934= 934. 936. 937.
TQ$K_ACTION_ADVANCE_STATE Literal 88
TQ$K_ACTION_CHANGE_TABLE Literal 88
TQ$K_ACTION_DONE_TEST_QUEUE Literal 88
TQ$K_ACTION_DO_NOTHING Literal 88
TQ$K_ACTION_DUMMY_3 Literal 88
TQ$K_ACTION_DUMMY_4 Literal 88
TQ$K_ACTION_DUMMY_5 Literal 88
TQ$K_ACTION_GET_DDB Literal 88
TQ$K_ACTION_INIT_TQ Literal 88
TQ$K_ACTION_INTERNAL_ERROR Literal 88
  
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Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_LAST_ACTION	Literal	88		
TQ\$K_STATE_CHANGE_TABLE	Literal	88		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	88		
TQ\$K_STATE_DUMMY_1	Literal	88		
TQ\$K_STATE_DUMMY_2	Literal	88		
TQ\$K_STATE_DUMMY_3	Literal	88		
TQ\$K_STATE_DUMMY_4	Literal	88		
TQ\$K_STATE_DUMMY_5	Literal	88		
TQ\$K_STATE_GET_DDB	Literal	88		
TQ\$K_STATE_INIT_TQ	Literal	88		
TQ\$K_STATE_INTERNAL_ERROR	Literal	88		
TQ\$K_STATE_LAST_STATE	Literal	88		
TRUE	Literal	Lib03 211	371 480 602 945 1433	
TSTCLA_NAME_PTR	Local	687 817a	846.	
TSTCNFG\$B_PREP	Field	Lib03 1410.		
TSTCNFG_PTR	Register	1350 1388=	1410a.	
TYPE_MAIN_MENU_SELECTIONS	Routine	444	503c	
TYPE_TEST_MENU_SELECTIONS	Routine	670	995c	
T_PROMPT_DEFAULT	Bind	106 512a	551. 999a 1045.	
VALID_ALPHA_LOWER	Local	434 534=	538.	
	Register	898 938=	941.	
VALID_ALPHA_STATUS	Register	896 932=	934. 945= 949.	
VALID_ALPHA_UPPER	Local	433 533=	534. 537.	
	Register	897 937=	938. 940.	
VALID_STATUS	Local	432 495=	529. 536= 542. 555.	
	Register	660 991=	1021= 1029= 1036. 1049.	

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]MENPROMPT.B32;1
2	Module	MENPROMPT
58	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
59	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
60	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
61	Library #4	SYSSCOMMON:[SYSLIB]LIB.L32;2
1610	Eludom	MENPROMPT

KEY TO REFERENCE TYPE FLAGS

. Fetch
 = Store
 c Routine call
 a Address use
 @ Indirect use
 e External, external routine, or external literal declaration
 f Forward or forward routine declaration
 h Condition handler enabling
 m Map declaration
 u Undeclare declaration

; Library Statistics

File	Symbols			Pages	Processing	Mapped	Time
	Total	Loaded	Percent				
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	20	2	94			00:00.2
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	139	28	62			00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2			18619	3	0	1000	00:04.4

; COMMAND QUALIFIERS

; BLISS MENPROMPT.B32/LIST=MENPROMPT.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MENPROMPT.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 2728 code + 365 data bytes
 ; Run Time: 01:52.2
 ; Elapsed Time: 03:24.1
 ; Lines/CPU Min: 860
 ; Lexemes/CPU-Min: 70207
 ; Memory Used: 526 pages
 ; Compilation Complete

```
: 0001 0 *TITLE '*** MENSTATE Module'
: 0002 0 MODULE MENSTATE ( ! The 3 State Tables for Menu Test
: 0003 0 IDENT = 'V01.4'
: 0004 0 ) =
: 0005 0 !*
: 0006 0 ! COPYRIGHT (c) 1980, 1981
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
: 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
: 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
: 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
: 0015 0 ! REMAIN IN DEC.
: 0016 0 !
: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
: 0019 0 ! CORPORATION.
: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 !-
```

```

: 0024 0 : **
: 0025 0 : Facility:
: 0026 0 :
: 0027 0 : Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 :
: 0029 0 : Abstract:
: 0030 0 :
: 0031 0 : This module contains the state tables for use by the Menu Test portion of CRD.
: 0032 0 :
: 0033 0 : Author:
: 0034 0 :
: 0035 0 : Jack Stansbury
: 0036 0 :
: 0037 0 : Creation Date:
: 0038 0 :
: 0039 0 : July 30, 1982
: 0040 0 :
: 0041 0 : Version:
: 0042 0 :
: 0043 0 : 6.9
: 0044 0 :
: 0045 0 : Modified By:
: 0046 0 :
: 0047 0 : 01-01 Jack Stansbury, March 1, 1982, Version ??
: 0048 0 :   Changed the HS state table to allow diagnostics to issue
: 0049 0 :   $DS_Print's from the cleanup section after an abort
: 0050 0 :   (EVRLA prompted this).
: 0051 0 :
: 0052 0 : 01-02 Jack Stansbury, March 2, 1982, Version ??
: 0053 0 :   For related information, see the modification history in CRDSTATE
: 0054 0 :   module (dated March 1, 1983). Essentially, make the Diagnostic_Error
: 0055 0 :   state and the Preparation_Error state more forgiving.
: 0056 0 :
: 0057 0 : 01-03 Jack Stansbury, March 3, 1983, Version ??
: 0058 0 :   Added an Assert statement for the number of typcodes (CRD$K_Numb_TypeCodes).
: 0059 0 :   If this number changes from 38, then you must add more rows to these state tables.
: 0060 0 :   Note that these tables (and the ones in CRDSTATE) are VERY dependent on the
: 0061 0 :   value of CRD$K_Numb_TypeCodes.
: 0062 0 :
: 0063 0 : 04 Ron Parker 18-OCT-1984
: 0064 0 :   - Added brief explanation of state table description
: 0065 0 : --

```

ZZ-ENSAB-2.0 Libraries
MENSTATE *** MENSTATE Module 19 Sep-1985 17:20:15 VAX-11 Bliss-32 V4.1-746
V01.4 Libraries 3-Jan-1985 17:02:35 [DS.CRD.V020]MENSTATE.B32;1 (3)

B 13

19 Sep-1985

Fiche 7 Frame B13
Page 3

Sequence 1393

```
; 0066 0 xSBTTL 'Libraries'
; 0067 1 BEGIN      ! Begin the MENSTATE module
; 0068 1
; 0069 1 LIBRARY
; 0070 1 '$DS';      ! Use Ds.L32 first
; 0071 1
; 0072 1 LIBRARY
; 0073 1 '$Diag';    ! Use Diag.L32 second
; 0074 1
; 0075 1 LIBRARY
; 0076 1 '$CRD';     ! Use CRD.L32 third
; 0077 1
; 0078 1 LIBRARY
; 0079 1 'Sys$Library:Lib'; ! Use Lib as last resort
```


ZZ-ENSAB-2.0 Included Macros and Literals C 13
MENSTATE *** MENSTATE Module 19-Sep-1985 17:20:15 VAX-11 Bliss-32 V4.1-746 Page 4
V01.4 Included Macros and Literals 3-Jan-1985 17:02:35 [DS.CRD.V020]MENSTATE.B32;1 (4) Sequence 1394

; 0080 1 xSBTTL 'Included Macros and Literals'
; 0081 1
; 0082 1 \$CRD_Literals; ! Define the CRD literals

```
; 0083 1 xSBTTL 'Psect Definitions'
; 0084 1
; 0085 1 PSECT
; 0086 1     PLIT    = Data (NOEXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0087 1
; 0088 1 PSECT
; 0089 1     CODE    = Code ( EXECUTE,  SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0090 1
; 0091 1 PSECT
; 0092 1     OWN     = Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0093 1
; 0094 1 PSECT
; 0095 1     GLOBAL  = Work (NOEXECUTE, NOSHARE,  WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```

19-Sep-1985

Fiche 7 Frame E13

Sequence 1396

MENSTATE *** MENSTATE Module 19-Sep-1985 17:20:15 VAX-11 Bliss-32 V4.1-746

Page 6

V01.4 Module-Global Static Storage 3-Jan-1985 17:02:35 (DS.CRD.V020)MENSTATE.B32;1 (6)

```

; 0096 1 xSBTTL 'Module-Global Static Storage'
; 0097 1
; 0098 1 ModNam ('MENSTATE'); ! Module name for ErrSup macro
; 0099 1
; 0100 1 !+
; 0101 1 ! This is a general description of how the state tables are organized.
; 0102 1 !
; 0103 1 ! The table is a two dimensional array consisting of records.
; 0104 1 ! Each record consists of two words.
; 0105 1 ! The first word is the action to take, in code of course,
; 0106 1 ! and the second word is the next state to enter.
; 0107 1 !
; 0108 1 ! The array is addressed as TABLE[.Typecode,.State,.Field] in Bliss.
; 0109 1 ! The .Field term determines which word to look at.
; 0110 1 !-
; 0111 1

```

```

; 0112 1 xSBTTL 'Local Macro Definitions for MM'
; 0113 1
; 0114 1 COMPILETIME
; 0115 1 $MM_Prev_Column$ = 0, ! The previous column in the Insert_N macro
; 0116 1 $MM_Window_Size$ = 0, ! The window size in the Insert_N macro
; 0117 1 $MM_Entry$ = 0, ! Number of entrys put into current row
; 0118 1 $MM_Rows$ = 0; ! Number of rows put in so far
; 0119 1
; 0120 1 MACRO
; M 0121 1 MM$Fill_N_Entrys (N, New_State, Action_Routine) =
; M 0122 1 REP N OF
; M 0123 1 WORD (xNAME ('MM$K_Action_', Action_Routine), xNAME ('MM$K_State_', New_State))
; M 0124 1
; M 0125 1 xIF ($MM_Entry$ + N) EQL MM$K_Numb_States
; M 0126 1 xTHEN
; M 0127 1 xASSIGN ($MM_Rows$, $MM_Rows$ + 1)
; M 0128 1 xASSIGN ($MM_Entry$, 0)
; M 0129 1 xELSE
; M 0130 1 xIF ($MM_Entry$ + N) GTR MM$K_Numb_States
; M 0131 1 xTHEN
; M 0132 1 xERRORMACRO ('MM$Fill_N_Entrys: Too many entrys (', xNUMBER ($MM_Entry$),
; M 0133 1 ') in row ', xNUMBER ($MM_Rows$))
; M 0134 1 xELSE
; M 0135 1 xASSIGN ($MM_Entry$, $MM_Entry$ + N)
; M 0136 1 xFI
; M 0137 1 xFI
; 0138 1 x;
; 0139 1
; 0140 1 MACRO
; M 0141 1 MM$Insert_Entrys (New_State, Action_Routine) [] =
; M 0142 1 MM$Fill_N_Entrys (1, New_State, Action_Routine)
; M 0143 1
; M 0144 1 xIF NOT xNULL (xREMAINING)
; M 0145 1 xTHEN
; M 0146 1 MM$Insert_Entrys (xREMAINING)
; M 0147 1 xFI
; 0148 1 x;
; 0149 1
; 0150 1 MACRO
; M 0151 1 MM$Fill_Full_Row =
; M 0152 1 xIF $MM_Entry$ NEQ 0
; M 0153 1 xTHEN
; M 0154 1 xERRORMACRO ('MM$Fill_Full_Row: $MM_Entry$ = ', xNUMBER ($MM_Entry$), ', not zero')
; M 0155 1 xELSE
; M 0156 1 MM$Fill_N_Entrys (MM$K_Numb_States, Internal_Error, Internal_Error)
; M 0157 1 xFI
; 0158 1 x;

```

```

: 0159 1 MACRO
: 0160 1 !*
: 0161 1 ! Insert entrys into one whole row. The column number tells what column to put 'State' and
: 0162 1 ! 'Action' into. This macro can be called with any number of parameters as long as the
: 0163 1 ! number is 0 mod 3.
: 0164 1 !-
: 0165 1
: M 0166 1 MM$Insert_N (Column, State, Action) [] =
: M 0167 1   xIF xCOUNT EQL 0
: M 0168 1   xTHEN
: M 0169 1     xASSIGN ($MM_Prev_Column$, 0)
: M 0170 1   xFI
: M 0171 1
: M 0172 1   xASSIGN ($MM_Window_Size$, xNAME ('MM$K_State_', Column) - $MM_Prev_Column$)
: M 0173 1
: M 0174 1   xIF $MM_Window_Size$ GTR 0
: M 0175 1   xTHEN
: M 0176 1     MM$Fill_N_Entrys ($MM_Window_Size$, Internal_Error, Internal_Error),
: M 0177 1   xFI
: M 0178 1
: M 0179 1   MM$Insert_Entrys (State, Action)
: M 0180 1
: M 0181 1   xASSIGN ($MM_Prev_Column$, xNAME ('MM$K_State_', Column) + 1)
: M 0182 1
: M 0183 1   xIF NOT xNULL (xREMAINING)
: M 0184 1   xTHEN
: M 0185 1     MM$Insert_N (xREMAINING)
: M 0186 1   xELSE
: M 0187 1     xASSIGN ($MM_Window_Size$, MM$K_Numb_States - $MM_Prev_Column$)
: M 0188 1
: M 0189 1     xIF $MM_Window_Size$ GTR 0
: M 0190 1     xTHEN
: M 0191 1       MM$Fill_N_Entrys ($MM_Window_Size$, Internal_Error, Internal_Error)
: M 0192 1     xFI
: M 0193 1   xFI
: 0194 1 x;

```

```

; 0195 1 xSBTTL 'Local Macro Definitions for TQ'
; 0196 1
; 0197 1 COMPILETIME
; 0198 1 $TQ_Prev_Column$ = 0, ! The previous column in the Insert_N macro
; 0199 1 $TQ_Window_Size$ = 0, ! The window size in the Insert_N macro
; 0200 1 $TQ_Entry$ = 0, ! Number of entrys put into current row
; 0201 1 $TQ_Rows$ = 0; ! Number of rows put in so far
; 0202 1
; 0203 1 MACRO
; M 0204 1 TQ$Fill_N_Entrys (N, New_State, Action_Routine) =
; M 0205 1 REP N OF
; M 0206 1 WORD (xNAME ('TQ$K_Action_', Action_Routine), xNAME ('TQ$K_State_', New_State))
; M 0207 1
; M 0208 1 xIF ($TQ_Entry$ + N) EQL TQ$K_Numb_States
; M 0209 1 xTHEN
; M 0210 1 xASSIGN ($TQ_Rows$, $TQ_Rows$ + 1)
; M 0211 1 xASSIGN ($TQ_Entry$, 0)
; M 0212 1 xELSE
; M 0213 1 xIF ($TQ_Entry$ + N) GTR TQ$K_Numb_States
; M 0214 1 xTHEN
; M 0215 1 xERRORMACRO ('TQ$Fill_N_Entrys: Too many entrys (', xNUMBER ($TQ_Entry$),
; M 0216 1 ') in row ', xNUMBER ($TQ_Rows$))
; M 0217 1 xELSE
; M 0218 1 xASSIGN ($TQ_Entry$, $TQ_Entry$ + N)
; M 0219 1 xFI
; M 0220 1 xFI
; 0221 1 x;
; 0222 1
; 0223 1 MACRO
; M 0224 1 TQ$Insert_Entrys (New_State, Action_Routine) [] -
; M 0225 1 TQ$Fill_N_Entrys (1, New_State, Action_Routine)
; M 0226 1
; M 0227 1 xIF NOT xNULL (xREMAINING)
; M 0228 1 xTHEN
; M 0229 1 ,TQ$Insert_Entrys (xREMAINING)
; M 0230 1 xFI
; 0231 1 x;
; 0232 1
; 0233 1 MACRO
; M 0234 1 TQ$Fill_Full_Row =
; M 0235 1 xIF $TQ_Entry$ NEQ 0
; M 0236 1 xTHEN
; M 0237 1 xERRORMACRO ('TQ$Fill Full Row: $TQ_Entry$ = ', xNUMBER ($TQ_Entry$), ', not zero')
; M 0238 1 xELSE
; M 0239 1 TQ$Fill N_Entrys (TQ$K_Numb_States, Internal_Error, Internal_Error)
; M 0240 1 xFI
; 0241 1 x;

```

```
; 0242 1 MACRO
; 0243 1 !*
; 0244 1 ! Insert entrys into one whole row. The column number tells what column to put 'State' and
; 0245 1 ! 'Action' into. This macro can be called with any number of parameters as long as the
; 0246 1 ! number is mod 3.
; 0247 1 !-
; 0248 1
; M 0249 1 TQ$Insert_N (Column, State, Action) [] =
; M 0250 1   xIF xCOUNT EQL 0
; M 0251 1   xTHEN
; M 0252 1     xASSIGN ($TQ_Prev_Column$, 0)
; M 0253 1   xFI
; M 0254 1
; M 0255 1   xASSIGN ($TQ_Window_Size$, xNAME ('TQ$K_State_', Column) - $TQ_Prev_Column$)
; M 0256 1
; M 0257 1   xIF $TQ_Window_Size$ GTR 0
; M 0258 1   xTHEN
; M 0259 1     TQ$Fill_N_Entrys ($TQ_Window_Size$, Internal_Error, Internal_Error),
; M 0260 1   xFI
; M 0261 1
; M 0262 1   TQ$Insert_Entrys (State, Action)
; M 0263 1
; M 0264 1   xASSIGN ($TQ_Prev_Column$, xNAME ('TQ$K_State_', Column) + 1)
; M 0265 1
; M 0266 1   xIF NOT xNULL (xREMAINING)
; M 0267 1   xTHEN
; M 0268 1     , TQ$Insert_N (xREMAINING)
; M 0269 1   xELSE
; M 0270 1     xASSIGN ($TQ_Window_Size$, TQ$K_Numb_States - $TQ_Prev_Column$)
; M 0271 1
; M 0272 1     xIF $TQ_Window_Size$ GTR 0
; M 0273 1     xTHEN
; M 0274 1       , TQ$Fill_N_Entrys ($TQ_Window_Size$, Internal_Error, Internal_Error)
; M 0275 1     xFI
; M 0276 1   xFI
; 0277 1 x;
```

```

: 0278 1 xSBTTL 'Local Macro Definitions for HS'
: 0279 1
: 0280 1 COMPILETIME
: 0281 1 $HS_Prev_Column$ = 0, ! The previous column in the Insert_N macro
: 0282 1 $HS_Window_Size$ = 0, ! The window size in the Insert_N macro
: 0283 1 $HS_Entry$ = 0, ! Number of entrys put into current row
: 0284 1 $HS_Rows$ = 0; ! Number of rows put in so far
: 0285 1
: 0286 1 MACRO
: M 0287 1 HS$Fill_N_Entrys (N, New_State, Action_Routine) =
: M 0288 1 REP N OF
: M 0289 1 WORD (xNAME ('HS$K_Action_', Action_Routine), xNAME ('HS$K_State_', New_State))
: M 0290 1
: M 0291 1 xIF ($HS_Entry$ + N) EQL HS$K_Numb_States
: M 0292 1 xTHEN
: M 0293 1 xASSIGN ($HS_Rows$, $HS_Rows$ + 1)
: M 0294 1 xASSIGN ($HS_Entry$, 0)
: M 0295 1 xELSE
: M 0296 1 xIF ($HS_Entry$ + N) GTR HS$K_Numb_States
: M 0297 1 xTHEN
: M 0298 1 xERRORMACRO ('HS$Fill_N_Entrys: Too many entrys (', xNUMBER ($HS_Entry$),
: M 0299 1 ') in row ', xNUMBER ($HS_Rows$))
: M 0300 1 xELSE
: M 0301 1 xASSIGN ($HS_Entry$, $HS_Entry$ + N)
: M 0302 1 xFI
: M 0303 1 xFI
: 0304 1 x;
: 0305 1
: 0306 1 MACRO
: M 0307 1 HS$Insert_Entrys (New_State, Action_Routine) [] =
: M 0308 1 HS$Fill_N_Entrys (1, New_State, Action_Routine)
: M 0309 1
: M 0310 1 xIF NOT xNULL (xREMAINING)
: M 0311 1 xTHEN
: M 0312 1 HS$Insert_Entrys (xREMAINING)
: M 0313 1 xFI
: 0314 1 x;
: 0315 1
: 0316 1 MACRO
: M 0317 1 HS$Fill_Full_Row =
: M 0318 1 xIF $HS_Entry$ NEQ 0
: M 0319 1 xTHEN
: M 0320 1 xERRORMACRO ('HS$Fill_Full_Row: $HS_Entry$ = ', xNUMBER ($HS_Entry$), ', not zero')
: M 0321 1 xELSE
: M 0322 1 HS$Fill_N_Entrys (HS$K_Numb_States, Internal_Error, Internal_Error)
: M 0323 1 xFI
: 0324 1 x;

```



```

: 0325 1 MACRO
: 0326 1 !+
: 0327 1 ! Insert entrys into one whole row. The column number tel's what column to put 'State' and
: 0328 1 ! 'Action' into. This macro can be called with any number of parameters as long as the
: 0329 1 ! number is mod 3.
: 0330 1 !-
: 0331 1
: M 0332 1 HS$Insert_N (Column, State, Action) [] =
: M 0333 1   xIF xCOUNT EQL 0
: M 0334 1   xTHEN
: M 0335 1     xASSIGN ($HS_Prev_Column$, 0)
: M 0336 1   xFI
: M 0337 1
: M 0338 1   xASSIGN ($HS_Window_Size$, xNAME ('HS$K_State_', Column) - $HS_Prev_Column$)
: M 0339 1
: M 0340 1   xIF $HS_Window_Size$ GTR 0
: M 0341 1   xTHEN
: M 0342 1     HS$Fill_N_Entrys ($HS_Window_Size$, Internal_Error, Internal_Error),
: M 0343 1   xFI
: M 0344 1
: M 0345 1   HS$Insert_Entrys (State, Action)
: M 0346 1
: M 0347 1   xASSIGN ($HS_Prev_Column$, xNAME ('HS$K_State_', Column) + 1)
: M 0348 1
: M 0349 1   xIF NOT xNULL (xREMAINING)
: M 0350 1   xTHEN
: M 0351 1     , HS$Insert_N (xREMAINING)
: M 0352 1   xELSE
: M 0353 1     xASSIGN ($HS_Window_Size$, HS$K_Numb_States - $HS_Prev_Column$)
: M 0354 1
: M 0355 1     xIF $HS_Window_Size$ GTR 0
: M 0356 1     xTHEN
: M 0357 1       , HS$Fill_N_Entrys ($HS_Window_Size$, Internal_Error, Internal_Error)
: M 0358 1     xFI
: M 0359 1   xFI
: 0360 1 x;

```

```

: 0361 1 %SBTTL 'GLOBAL OWN Storage'
: 0362 1
: 0363 1 GLOBAL
: 0364 1 CRD$GL_Previous_State, ! The previous state
: 0365 1
: 0366 1 CRD$GL_MM_Current_State, ! The current state for the Main Menu
: 0367 1 CRD$GL_TQ_Current_State, ! The current state for the Test Queue Table
: 0368 1 CRD$GL_HS_Current_State, ! The current state for the Hardware Support
: 0369 1
: 0370 1 CRD$GL_TQ_Current_TQ_Entry, ! An index into the Test Queue Table, for the current entry
: 0371 1
: 0372 1 CRD$GA_HS_Current_DDB_Ptr, ! The current DDB that is being tested
: 0373 1 CRD$GA_HS_Current_HSB_Ptr, ! The current Hardware Support Block being tested
: 0374 1 CRD$GL_HS_Current_HSB_Numb, ! The number of the current Hardware Support Block
: 0375 1
: 0376 1 CRD$GB_Current_State_Table : BYTE;
: 0377 1 ! 0 => Using the MM state table
: 0378 1 ! 1 => Using the TQ state table
: 0379 1 ! 2 => Using the HS state table

```

```

; 0380 1 xSBTTL 'Main Menu Global Bindings'
; 0381 1
; P 0382 1 CRD_Assert ((CRD$K_Numb_Types EQL 38), [[03]
; L 0383 1 'You must make additions to these tables since the number of typcodes has changed'); [[03]
; xPRINT: ASSERT: The assertion is true.
; 0384 1
; 0385 1 GLOBAL BIND
; 0386 1 CRD$GAW_MM_State_Table =
; 0387 1 UPLIT (
; P 0388 1 MM$Insert_N (
; P 0389 1 Load_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0390 1 Set_Flags_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0391 1 Start_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0392 1 AutoSizer_Running, AutoSizer_Running, Do_Nothing
; 0393 1 )
; 0394 1 ! This row is for the General typecode (Row 0)
; 0395 1
; P 0396 1 MM$Insert_N (
; P 0397 1 !+
; P 0398 1 ! Current State Next State Current Action Routine
; P 0399 1 !-
; P 0400 1 Start, Print_Menu_Heading, Advance_State,
; P 0401 1 Print_Menu_Heading, Load_AutoSizer, Print_Menu_Heading,
; P 0402 1 Load_AutoSizer, Set_Flags_AutoSizer, Load_AutoSizer,
; P 0403 1 Set_Flags_AutoSizer, Start_AutoSizer, Set_Flags_AutoSizer,
; P 0404 1 Start_AutoSizer, AutoSizer_Running, Start_AutoSizer,
; P 0405 1 AutoSizer_Running, Build_DDBs, Advance_State,
; P 0406 1 Build_DDBs, Build_HSTs, Build_DDBs,
; P 0407 1 Build_HSTs, Done_Inits, Build_HSTs,
; P 0408 1 Done_Inits, Print_Menu, Done_Inits,
; P 0409 1 Print_Menu, Change_Table, Print_Menu,
; P 0410 1 Change_Table, Print_Menu, Change_Table
; 0411 1 )
; 0412 1 ! This row is for the DS_Prompt typecode (Row 1)
; 0413 1
; P 0414 1 MM$Insert_N (
; P 0415 1 AutoSizer_Running, AutoSizer_Error, AutoSizer_Error,
; P 0416 1 Change_Table, Change_Table, Menu_Prompt
; 0417 1 )
; 0418 1 ! This row is for the User_Prompt typecode (Row 2)
; 0419 1
; P 0420 1 MM$Insert_N (
; P 0421 1 Load_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0422 1 Set_Flags_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0423 1 Start_AutoSizer, AutoSizer_Error, AutoSizer_Error,
; P 0424 1 AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0425 1 )
; 0426 1 ! This row is for the General_Error typecode (Row 3)
; 0427 1
; P 0428 1 MM$Insert_N (
; P 0429 1 AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0430 1 )
; 0431 1 ! This row is for the ErrSup typecode (Row 4)
; 0432 1
; P 0433 1 MM$Insert_N (

```

```

; P 0434 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0435 1      )
; 0436 1      ! This row is for the ErrSys typecode (Row 5)
; 0437 1
; P 0438 1      MM$Insert_N (
; P 0439 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0440 1      )
; 0441 1      ! This row is for the ErrHard typecode (Row 6)
; 0442 1
; P 0443 1      MM$Insert_N (
; P 0444 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0445 1      )
; 0446 1      ! This row is for the ErrSoft typecode (Row 7)
; 0447 1
; P 0448 1      MM$Insert_N (
; P 0449 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0450 1      )
; 0451 1      ! This row is for the ErrDev typecode (Row 8)
; 0452 1
; P 0453 1      MM$Insert_N (
; P 0454 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0455 1      )
; 0456 1      ! This row is for the Error_Body typecode (Row 9)
; 0457 1
; P 0458 1      MM$Insert_N (
; P 0459 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0460 1      )
; 0461 1      ! This row is for the Error_End typecode (Row 10)
; 0462 1
; P 0463 1      MM$Insert_N (
; P 0464 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0465 1      )
; 0466 1      ! This row is for the Exception_Head typecode (Row 11)
; 0467 1
; P 0468 1      MM$Insert_N (
; P 0469 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0470 1      )
; 0471 1      ! This row is for the Exception typecode (Row 12)
; 0472 1
; P 0473 1      MM$Insert_N (
; P 0474 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
; 0475 1      )
; 0476 1      ! This row is for the Err_Halt typecode (Row 13)
; 0477 1
; P 0478 1      MM$Insert_N (
; P 0479 1      AutoSizer_Running, AutoSizer_Running, Do_Nothing
; 0480 1      )
; 0481 1      ! This row is for the Summary typecode (Row 14)
; 0482 1
; P 0483 1      MM$Insert_N (
; P 0484 1      AutoSizer_Running, AutoSizer_Running, Do_Nothing
; 0485 1      )
; 0486 1      ! This row is for the Program_Start typecode (Row 15)
; 0487 1
; P 0488 1      MM$Insert N (
  
```

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: P 0489 1      AutoSizer_Running, AutoSizer_Running, Do_Nothing
: 0490 1      )
: 0491 1      ! This row is for the Program_End typecode (Row 16)
: 0492 1
: P 0493 1      MM$Insert_N (
: P 0494 1      AutoSizer_Running, AutoSizer_Running, Do_Nothing
: 0495 1      )
: 0496 1      ! This row is for the First_Pass typecode (Row 17)
: 0497 1
: P 0498 1      MM$Insert_N (
: P 0499 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0500 1      )
: 0501 1      ! This row is for the No_Tests typecode (Row 18)
: 0502 1
: P 0503 1      MM$Insert_N (
: P 0504 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0505 1      )
: 0506 1      ! This row is for the Abort_Test typecode (Row 19)
: 0507 1
: P 0508 1      MM$Insert_N (
: P 0509 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0510 1      )
: 0511 1      ! This row is for the Abort_Program typecode (Row 20)
: 0512 1
: P 0513 1      MM$Insert_N (
: P 0514 1      Load_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0515 1      Set_Flags_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0516 1      Start_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0517 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0518 1      )
: 0519 1      ! This row is for the Command_Err typecode (Row 21)
: 0520 1
: P 0521 1      MM$Insert_N (
: P 0522 1      Load_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0523 1      Set_Flags_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0524 1      Start_AutoSizer, AutoSizer_Error, AutoSizer_Error,
: P 0525 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0526 1      )
: 0527 1      ! This row is for the Command_Out typecode (Row 22)
: 0528 1
: P 0529 1      MM$Insert_N (
: P 0530 1      AutoSizer_Running, AutoSizer_Running, Do_Nothing
: 0531 1      )
: 0532 1      ! This row is for the Program_Info typecode (Row 23)
: 0533 1
: P 0534 1      MM$Insert_N (
: P 0535 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0536 1      )
: 0537 1      ! This row is for the Start_Err typecode (Row 24)
: 0538 1
: P 0539 1      MM$Insert_N (
: P 0540 1      AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0541 1      )
: 0542 1      ! This row is for the Sequence_Error typecode (Row 25)
: 0543 1

```

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: 0544 1 MM$Fill_Full_Row,
: 0545 1 ! This row is for the CRD_AutoTest typecode (Row 26)
: 0546 1
: P 0547 1 MM$Insert_N (
: P 0548 1   AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0549 1 )
: 0550 1 ! This row is for the ErrPrep typecode (Row 27)
: 0551 1
: P 0552 1 MM$Insert_N (
: P 0553 1   AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0554 1 )
: 0555 1 ! This row is for the Param_Error typecode (Row 28)
: 0556 1
: P 0557 1 MM$Insert_N (
: P 0558 1   Start, Print_Menu_Heading, Do_Nothing
: 0559 1 )
: 0560 1 ! This row is for the DS_Start typecode (Row 29)
: 0561 1
: 0562 1 MM$Fill_Full_Row,
: 0563 1 ! This row is for the Script_Pnf typecode (Row 30)
: 0564 1
: 0565 1 MM$Fill_Full_Row,
: 0566 1 ! This row is for the Script_Skip typecode (Row 31)
: 0567 1
: P 0568 1 MM$Insert_N (
: P 0569 1   Change_Table, Change_Table, Menu_Prompt
: 0570 1 )
: 0571 1 ! This row is for the Script_Prompt typecode (Row 32)
: 0572 1
: 0573 1 MM$Fill_Full_Row,
: 0574 1 ! This row is for the Script_Echo typecode (Row 33)
: 0575 1
: P 0576 1 MM$Insert_N (
: P 0577 1   AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0578 1 )
: 0579 1 ! This row is for the QIO_NoDriver typecode (Row 34)
: 0580 1
: P 0581 1 MM$Insert_N (
: P 0582 1   AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0583 1 )
: 0584 1 ! This row is for the QIO_WrongVer typecode (Row 35)
: 0585 1
: P 0586 1 MM$Insert_N (
: P 0587 1   AutoSizer_Running, AutoSizer_Error, AutoSizer_Error
: 0588 1 )
: 0589 1 ! This row is for the QIO_InvAdp typecode (Row 36)
: 0590 1
: 0591 1 MM$Fill_Full_Row
: 0592 1 ! This row is for the Start_List typecode (Row 37)
: 0593 1
: 0594 1 ) : MM_State Table_Structure [CRD$K_Numb_TypeCodes, MM$K_Numb_States];
  
```

```

: 0595 1 xSBTTL 'Test Queue Global Bindings'
: 0596 1
: 0597 1 GLOBAL BIND
: 0598 1 CRD$GAW_TQ_State_Table =
: 0599 1 UPLIT (
: 0600 1   TQ$Fill_Full_Row,
: 0601 1   ! This row is for the General typecode (Row 0)
: 0602 1
: P 0603 1   TQ$Insert_N (
: P 0604 1   !
: P 0605 1   ! Current State  Next State  Current Action Routine
: P 0606 1   !-
: P 0607 1
: P 0608 1   Init_TQ, Get_DDB, Init_TQ,
: P 0609 1   Get_DDB, Change_Table, Get_DDB,
: P 0610 1   Change_Table, Get_DDB, Change_Table,
: P 0611 1   Done_Test_Queue, Done_Test_Queue, Done_Test_Queue
: 0612 1   )
: 0613 1   ! This row is for the DS_Prompt typecode (Row 1)
: 0614 1
: 0615 1   TQ$Fill_Full_Row,
: 0616 1   ! This row is for the User_Prompt typecode (Row 2)
: 0617 1
: 0618 1   TQ$Fill_Full_Row,
: 0619 1   ! This row is for the General_Error typecode (Row 3)
: 0620 1
: 0621 1   TQ$Fill_Full_Row,
: 0622 1   ! This row is for the ErrSup typecode (Row 4)
: 0623 1
: 0624 1   TQ$Fill_Full_Row,
: 0625 1   ! This row is for the ErrSys typecode (Row 5)
: 0626 1
: 0627 1   TQ$Fill_Full_Row,
: 0628 1   ! This row is for the ErrHard typecode (Row 6)
: 0629 1
: 0630 1   TQ$Fill_Full_Row,
: 0631 1   ! This row is for the ErrSoft typecode (Row 7)
: 0632 1
: 0633 1   TQ$Fill_Full_Row,
: 0634 1   ! This row is for the ErrDev typecode (Row 8)
: 0635 1
: 0636 1   TQ$Fill_Full_Row,
: 0637 1   ! This row is for the Error_Body typecode (Row 9)
: 0638 1
: 0639 1   TQ$Fill_Full_Row,
: 0640 1   ! This row is for the Error_End typecode (Row 10)
: 0641 1
: 0642 1   TQ$Fill_Full_Row,
: 0643 1   ! This row is for the Exception_Head typecode (Row 11)
: 0644 1
: 0645 1   TQ$Fill_Full_Row,
: 0646 1   ! This row is for the Exception typecode (Row 12)
: 0647 1
: 0648 1   TQ$Fill_Full_Row,
: 0649 1   ! This row is for the Err_Halt typecode (Row 13)

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: 0650 1
: 0651 1 TQ$Fill_Full_Row,
: 0652 1 ! This row is for the Summary typecode (Row 14)
: 0653 1
: 0654 1 TQ$Fill_Full_Row,
: 0655 1 ! This row is for the Program_Start typecode (Row 15)
: 0656 1
: 0657 1 TQ$Fill_Full_Row,
: 0658 1 ! This row is for the Program_End typecode (Row 16)
: 0659 1
: 0660 1 TQ$Fill_Full_Row,
: 0661 1 ! This row is for the First_Pass typecode (Row 17)
: 0662 1
: 0663 1 TQ$Fill_Full_Row,
: 0664 1 ! This row is for the No_Tests typecode (Row 18)
: 0665 1
: 0666 1 TQ$Fill_Full_Row,
: 0667 1 ! This row is for the Abort_Test typecode (Row 19)
: 0668 1
: 0669 1 TQ$Fill_Full_Row,
: 0670 1 ! This row is for the Abort_Program typecode (Row 20)
: 0671 1
: 0672 1 TQ$Fill_Full_Row,
: 0673 1 ! This row is for the Command_Err typecode (Row 21)
: 0674 1
: 0675 1 TQ$Fill_Full_Row,
: 0676 1 ! This row is for the Command_Out typecode (Row 22)
: 0677 1
: 0678 1 TQ$Fill_Full_Row,
: 0679 1 ! This row is for the Program_Info typecode (Row 23)
: 0680 1
: 0681 1 TQ$Fill_Full_Row,
: 0682 1 ! This row is for the Start_Err typecode (Row 24)
: 0683 1
: 0684 1 TQ$Fill_Full_Row,
: 0685 1 ! This row is for the Sequence_Error typecode (Row 25)
: 0686 1
: 0687 1 TQ$Fill_Full_Row,
: 0688 1 ! This row is for the CRD_AutoTest typecode (Row 26)
: 0689 1
: 0690 1 TQ$Fill_Full_Row,
: 0691 1 ! This row is for the ErrPrep typecode (Row 27)
: 0692 1
: 0693 1 TQ$Fill_Full_Row,
: 0694 1 ! This row is for the Param_Error typecode (Row 28)
: 0695 1
: 0696 1 TQ$Fill_Full_Row,
: 0697 1 ! This row is for the DS_Start typecode (Row 29)
: 0698 1
: 0699 1 TQ$Fill_Full_Row,
: 0700 1 ! This row is for the Script_Pnf typecode (Row 30)
: 0701 1
: 0702 1 TQ$Fill_Full_Row,
: 0703 1 ! This row is for the Script_Skip typecode (Row 31)
: 0704 1

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; 0705 1 TQ$Fill_Full_Row,
; 0706 1 ! This row is for the Script_Prompt typecode (Row 32)
; 0707 1
; 0708 1 TQ$Fill_Full_Row,
; 0709 1 ! This row is for the Script_Echo typecode (Row 33)
; 0710 1
; 0711 1 TQ$Fill_Full_Row,
; 0712 1 ! This row is for the QIO_NoDriver typecode (Row 34)
; 0713 1
; 0714 1 TQ$Fill_Full_Row,
; 0715 1 ! This row is for the QIO_WrongVer typecode (Row 35)
; 0716 1
; 0717 1 TQ$Fill_Full_Row,
; 0718 1 ! This row is for the QIO_InvAdp typecode (Row 36)
; 0719 1
; 0720 1 TQ$Fill_Full_Row,
; 0721 1 ! This row is for the Start_List typecode (Row 37)
; 0722 1
; 0723 1 ) : TQ_State_Table_Structure [CRD$K_Numb_TypeCodes, TQ$K_Numb_States];

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; 0724 1 xSBTTL 'Hardware Support Global Bindings'
; 0725 1
; 0726 1 GLOBAL BIND
; 0727 1 CRD$GAW_HS_State_Table =
; 0728 1 UPLIT (
; P 0729 1   HS$Insert_N (
; P 0730 1     !+
; P 0731 1     ! Current State  Next State  Current Action Routine
; P 0732 1     !-
; P 0733 1
; P 0734 1     Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0735 1     Load_Error, Load_Error, Do_Nothing,
; P 0736 1     Start_Error, Start_Error, Do_Nothing,
; P 0737 1     Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0738 1     Preparation_Error, Preparation_Error, Do_Nothing, ! [01]
; P 0739 1     Internal_Error, Internal_Error, Internal_Error
; 0740 1   )
; 0741 1   ! This row is for the General typecode (Row 0)
; 0742 1
; P 0743 1   HS$Insert_N (
; P 0744 1     Init_HS, Advance_Diagnostic, Init_HS,
; P 0745 1     Advance_Diagnostic, Load_General_Com, Advance_Diagnostic,
; P 0746 1     Load_General_Com, Advance_General_Com, Load_General_Com,
; P 0747 1     Advance_General_Com, Load_General_Com, Advance_General_Com,
; P 0748 1     Done_General_Com, Load_Load_Com, Done_General_Com,
; P 0749 1     Load_Load_Com, Load_Set_Flags_Com, Load_Load_Com,
; P 0750 1     Load_Set_Flags_Com, Load_Set_Event_Com, Load_Set_Flags_Com,
; P 0751 1     Load_Set_Event_Com, Load_Select_Com, Load_Set_Event_Com,
; P 0752 1     Load_Select_Com, Load_Start_Com, Load_Select_Com,
; P 0753 1     Load_Start_Com, Diagnostic_Running, Load_Start_Com,
; P 0754 1     Diagnostic_Running, Advance_Diagnostic, Advance_State,
; P 0755 1     Change_Table, Change_Table, Change_Table,
; P 0756 1     Load_Error, Advance_Diagnostic, Advance_State,
; P 0757 1     Start_Error, Advance_Diagnostic, Advance_State,
; P 0758 1     Diagnostic_Error, Change_Table, Advance_State,
; P 0759 1     Preparation_Error, Advance_Diagnostic, Advance_State,
; P 0760 1     Internal_Error, Internal_Error, Internal_Error
; 0761 1   )
; 0762 1   ! This row is for the DS_Prompt typecode (Row 1)
; 0763 1
; P 0764 1   HS$Insert_N (
; P 0765 1     Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0766 1     Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0767 1     Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0768 1     Internal_Error, Internal_Error, Internal_Error
; 0769 1   )
; 0770 1   ! This row is for the User_Prompt typecode (Row 2)
; 0771 1
; P 0772 1   HS$Insert_N (
; P 0773 1     Load_Set_Flags_Com, Load_Error, Load_Error,
; P 0774 1     Load_Set_Event_Com, Start_Error, Start_Error,
; P 0775 1     Load_Select_Com, Start_Error, Start_Error,
; P 0776 1     Load_Start_Com, Start_Error, Start_Error,
; P 0777 1     Diagnostic_Running, Start_Error, Start_Error,
; P 0778 1     Load_Error, Load_Error, Do_Nothing,

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```
; P 0779 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0780 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0781 1 Internal_Error, Internal_Error, Internal_Error
; 0782 1 )
; 0783 1 ! This row is for the General_Error typecode (Row 3)
; 0784 1
; P 0785 1 HS$Insert_N (
; P 0786 1 Internal_Error, Internal_Error, Internal_Error
; 0787 1 )
; 0788 1 ! This row is for the ErrSup typecode (Row 4)
; 0789 1
; P 0790 1 HS$Insert_N (
; P 0791 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0792 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0793 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0794 1 Internal_Error, Internal_Error, Internal_Error
; 0795 1 )
; 0796 1 ! This row is for the ErrSys typecode (Row 5)
; 0797 1
; P 0798 1 HS$Insert_N (
; P 0799 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0800 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0801 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0802 1 Internal_Error, Internal_Error, Internal_Error
; 0803 1 )
; 0804 1 ! This row is for the ErrHard typecode (Row 6)
; 0805 1
; P 0806 1 HS$Insert_N (
; P 0807 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0808 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0809 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0810 1 Internal_Error, Internal_Error, Internal_Error
; 0811 1 )
; 0812 1 ! This row is for the ErrSoft typecode (Row 7)
; 0813 1
; P 0814 1 HS$Insert_N (
; P 0815 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0816 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0817 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0818 1 Internal_Error, Internal_Error, Internal_Error
; 0819 1 )
; 0820 1 ! This row is for the ErrDev typecode (Row 8)
; 0821 1
; P 0822 1 HS$Insert_N (
; P 0823 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0824 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0825 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0826 1 Internal_Error, Internal_Error, Internal_Error
; 0827 1 )
; 0828 1 ! This row is for the Error_Body typecode (Row 9)
; 0829 1
; P 0830 1 HS$Insert_N (
; P 0831 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0832 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0833 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
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; P 0834 1      Internal_Error, Internal_Error, Internal_Error
; 0835 1      )
; 0836 1      ! This row is for the Error_End typecode (Row 10)
; 0837 1
; P 0838 1      HS$Insert_N (
; P 0839 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0840 1      Internal_Error, Internal_Error, Internal_Error
; 0841 1      )
; 0842 1      ! This row is for the Exception_Head typecode (Row 11)
; 0843 1
; P 0844 1      HS$Insert_N (
; P 0845 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0846 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0847 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0848 1      Internal_Error, Internal_Error, Internal_Error
; 0849 1      )
; 0850 1      ! This row is for the Exception typecode (Row 12)
; 0851 1
; P 0852 1      HS$Insert_N (
; P 0853 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0854 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0855 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0856 1      Internal_Error, Internal_Error, Internal_Error
; 0857 1      )
; 0858 1      ! This row is for the Err_Halt typecode (Row 13)
; 0859 1
; P 0860 1      HS$Insert_N (
; P 0861 1      Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0862 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0863 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0864 1      Internal_Error, Internal_Error, Internal_Error
; 0865 1      )
; 0866 1      ! This row is for the Summary typecode (Row 14)
; 0867 1
; P 0868 1      HS$Insert_N (
; P 0869 1      Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0870 1      Internal_Error, Internal_Error, Internal_Error
; 0871 1      )
; 0872 1      ! This row is for the Program_Start typecode (Row 15)
; 0873 1
; P 0874 1      HS$Insert_N (
; P 0875 1      Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0876 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0877 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0878 1      Internal_Error, Internal_Error, Internal_Error
; 0879 1      )
; 0880 1      ! This row is for the Program_End typecode (Row 16)
; 0881 1
; P 0882 1      HS$Insert_N (
; P 0883 1      Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0884 1      Internal_Error, Internal_Error, Internal_Error
; 0885 1      )
; 0886 1      ! This row is for the First_Pass typecode (Row 17)
; 0887 1
; P 0888 1      HS$Insert_N (
```

```

; P 0889 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0890 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0891 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0892 1 Internal_Error, Internal_Error, Internal_Error
; 0893 1 )
; 0894 1 ! This row is for the No_Tests typecode (Row 18)
; 0895 1
; P 0896 1 HS$Insert_N (
; P 0897 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0898 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0899 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0900 1 Internal_Error, Internal_Error, Internal_Error
; 0901 1 )
; 0902 1 ! This row is for the Abort_Test typecode (Row 19)
; 0903 1
; P 0904 1 HS$Insert_N (
; P 0905 1 Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0906 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0907 1 Preparation_Error, Preparation_Error, Do_Nothing,
; P 0908 1 Internal_Error, Internal_Error, Internal_Error
; 0909 1 )
; 0910 1 ! This row is for the Abort_Program typecode (Row 20)
; 0911 1
; P 0912 1 HS$Insert_N (
; P 0913 1 Load_Set_Flags_Com, Load_Error, Load_Error,
; P 0914 1 Load_Set_Event_Com, Start_Error, Start_Error,
; P 0915 1 Load_Select_Com, Start_Error, Start_Error,
; P 0916 1 Load_Start_Com, Start_Error, Start_Error,
; P 0917 1 Diagnostic_Running, Start_Error, Start_Error,
; P 0918 1 Load_Error, Load_Error, Do_Nothing,
; P 0919 1 Start_Error, Start_Error, Do_Nothing,
; P 0920 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0921 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0922 1 Internal_Error, Internal_Error, Internal_Error
; 0923 1 )
; 0924 1 ! This row is for the Command_Err typecode (Row 21)
; 0925 1
; P 0926 1 HS$Insert_N (
; P 0927 1 Load_Set_Flags_Com, Load_Set_Flags_Com, Do_Nothing,
; P 0928 1 Load_Set_Event_Com, Load_Set_Event_Com, Do_Nothing,
; P 0929 1 Load_Select_Com, Load_Select_Com, Do_Nothing,
; P 0930 1 Load_Start_Com, Load_Start_Com, Do_Nothing,
; P 0931 1 Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0932 1 Load_Error, Load_Error, Do_Nothing,
; P 0933 1 Start_Error, Start_Error, Do_Nothing,
; P 0934 1 Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0935 1 Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0936 1 Internal_Error, Internal_Error, Internal_Error
; 0937 1 )
; 0938 1 ! This row is for the Command_Out typecode (Row 22)
; 0939 1
; P 0940 1 HS$Insert_N (
; P 0941 1 Diagnostic_Running, Diagnostic_Running, Do_Nothing,
; P 0942 1 Internal_Error, Internal_Error, Internal_Error
; 0943 1 )

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; 0944 1      ! This row is for the Program_Info typecode (Row 23)
; 0945 1
; P 0946 1    HS$Insert_N (
; P 0947 1      Diagnostic_Running, Start_Error, Start_Error,
; P 0948 1      Start_Error, Start_Error, Do_Nothing,
; P 0949 1      Internal_Error, Internal_Error, Internal_Error
; 0950 1      )
; 0951 1      ! This row is for the Start_Err typecode (Row 24)
; 0952 1
; P 0953 1    HS$Insert_N (
; P 0954 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0955 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0956 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0957 1      Internal_Error, Internal_Error, Internal_Error
; 0958 1      )
; 0959 1      ! This row is for the Sequence_Error typecode (Row 25)
; 0960 1
; 0961 1    HS$Fill_Full_Row,
; 0962 1      ! This row is for the CRD_AutoTest typecode (Row 26)
; 0963 1
; P 0964 1    HS$Insert_N (
; P 0965 1      Diagnostic_Running, Preparation_Error, Preparation_Error,
; P 0966 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 0967 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0968 1      Internal_Error, Internal_Error, Internal_Error
; 0969 1      )
; 0970 1      ! This row is for the ErrPrep typecode (Row 27)
; 0971 1
; P 0972 1    HS$Insert_N (
; P 0973 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0974 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0975 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0976 1      Internal_Error, Internal_Error, Internal_Error
; 0977 1      )
; 0978 1      ! This row is for the Param_Error typecode (Row 28)
; 0979 1
; P 0980 1    HS$Insert_N (
; P 0981 1      Internal_Error, Internal_Error, Internal_Error
; 0982 1      )
; 0983 1      ! This row is for the DS_Start typecode (Row 29)
; 0984 1
; P 0985 1    HS$Insert_N (
; P 0986 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0987 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0988 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0989 1      Internal_Error, Internal_Error, Internal_Error
; 0990 1      )
; 0991 1      ! This row is for the Script_Pnf typecode (Row 30)
; 0992 1
; P 0993 1    HS$Insert_N (
; P 0994 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 0995 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 0996 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 0997 1      Internal_Error, Internal_Error, Internal_Error
; 0998 1      )

```

```

; 0999 1      ! This row is for the Script_Skip typecode (Row 31)
; 1000 1
; P 1001 1    HS$Insert_N (
; P 1002 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 1003 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 1004 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1005 1      Internal_Error, Internal_Error, Internal_Error
; 1006 1      )
; 1007 1      ! This row is for the Script_Prompt typecode (Row 32)
; 1008 1
; P 1009 1    HS$Insert_N (
; P 1010 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 1011 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 1012 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1013 1      Internal_Error, Internal_Error, Internal_Error
; 1014 1      )
; 1015 1      ! This row is for the Script_Echo typecode (Row 33)
; 1016 1
; P 1017 1    HS$Insert_N (
; P 1018 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 1019 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 1020 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1021 1      Internal_Error, Internal_Error, Internal_Error
; 1022 1      )
; 1023 1      ! This row is for the QIO_NoDriver typecode (Row 34)
; 1024 1
; P 1025 1    HS$Insert_N (
; P 1026 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 1027 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 1028 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1029 1      Internal_Error, Internal_Error, Internal_Error
; 1030 1      )
; 1031 1      ! This row is for the QIO_WrongVer typecode (Row 35)
; 1032 1
; P 1033 1    HS$Insert_N (
; P 1034 1      Diagnostic_Running, Diagnostic_Error, Diagnostic_Error,
; P 1035 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing,
; P 1036 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1037 1      Internal_Error, Internal_Error, Internal_Error
; 1038 1      )
; 1039 1      ! This row is for the QIO_InvAdp typecode (Row 36)
; 1040 1
; P 1041 1    HS$Insert_N (
; P 1042 1      Start_Error, Start_Error, Do_Nothing,
; P 1043 1      Diagnostic_Error, Diagnostic_Error, Do_Nothing, ! [02]
; P 1044 1      Preparation_Error, Preparation_Error, Do_Nothing, ! [02]
; P 1045 1      Internal_Error, Internal_Error, Internal_Error
; 1046 1      )
; 1047 1      ! This row is for the Start_List typecode (Row 37)
; 1048 1
; 1049 1      ) : HS_State_Table_Structure [CRD$K_Numb_TypeCodes, HS$K_Numb_States];
  
```

```

; 1050 1 END      ! End of MENSTATE module
; 1051 0 ELUDOM

```

```

.TITLE MENSTATE *** MENSTATE Module
.IDENT \V01.4\

```

```

.PSECT WORK,NOEXE,2

```

```

00000 CRD$GL_PREVIOUS_STATE::
.BLKB 4
00004 CRD$GL_MM_CURRENT_STATE::
.BLKB 4
00008 CRD$GL_TQ_CURRENT_STATE::
.BLKB 4
0000C CRD$GL_HS_CURRENT_STATE::
.BLKB 4
00010 CRD$GL_TQ_CURRENT_TQ_ENTRY::
.BLKB 4
00014 CRD$GA_HS_CURRENT_DDB_PTR::
.BLKB 4
00018 CRD$GA_HS_CURRENT_HSB_PTR::
.BLKB 4
0001C CRD$GL_HS_CURRENT_HSB_NUMB::
.BLKB 4
00020 CRD$GB_CURRENT_STATE_TABLE::
.BLKB 1

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

45 54 41 54 53 4E 45 4D 08 00000 P.AAA: .ASCII <8>\MENSTATE\
00009 .BLKB 3
0012 0012 0000C P.AAB: .WORD 18, 18
0012 0012 00010 .WORD 18, 18
0012 0012 00014 .WORD 18, 18
0012 0012 00018 .WORD 18, 18
0012 0012 0001C .WORD 18, 18
0012 0012 00020 .WORD 18, 18
0013 0013 00024 .WORD 19, 19
0013 0013 00028 .WORD 19, 19
0013 0013 0002C .WORD 19, 19
0009 0000 00030 .WORD 0, 9
0012 0012 00034 .WORD 18, 18
0012 0012 00038 .WORD 18, 18
0012 0012 0003C .WORD 18, 18
0012 0012 00040 .WORD 18, 18
0012 0012 00044 .WORD 18, 18
0012 0012 00048 .WORD 18, 18
0012 0012 0004C .WORD 18, 18
0012 0012 00050 .WORD 18, 18
0012 0012 00054 .WORD 18, 18
0012 0012 00058 .WORD 18, 18
0012 0012 0005C .WORD 18, 18
0012 0012 00060 .WORD 18, 18
0012 0012 00064 .WORD 18, 18

```


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0009	0008	0007C	.WORD	8, 9	:
000A	0001	00080	.WORD	1, 10	:
000B	000A	00084	.WORD	10, 11	:
000D	000B	00088	.WORD	11, 13	:
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0012	0012	0052C	.WORD	18,	18	:
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0012	0012	005E4	.WORD	18,	18	:
0012	0012	005E8	.WORD	18,	18	:
0012	0012	005EC	.WORD	18,	18	:
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0012	0012	005F4	.WORD	18,	18	:
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ZZ-ENSAB-2.0 Hardware Support Global Bindings F 16
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V01.4 Hardware Support Global Bindings 3-Jan-1985 17:02:35 [DS.CRD.V020]MENSTATE.B32;1 (17)

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0015	0015	01B1C	.WORD	21, 21	:
0015	0015	01B20	.WORD	21, 21	:
0015	0015	01B24	.WORD	21, 21	:
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0015	0015	01B2C	.WORD	21, 21	:
0015	0015	01B30	.WORD	21, 21	:
0015	0015	01B34	.WORD	21, 21	:
0015	0015	01B38	.WORD	21, 21	:
0015	0015	01B3C	.WORD	21, 21	:
0015	0015	01B40	.WORD	21, 21	:
0015	0015	01B44	.WORD	21, 21	:
0015	0015	01B48	.WORD	21, 21	:
0015	0015	01B4C	.WORD	21, 21	:
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0015	0015	01B58	.WORD	21, 21	:
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0015	0015	01B64	.WORD	21, 21	:
0015	0015	01B68	.WORD	21, 21	:
0015	0015	01B6C	.WORD	21, 21	:
0013	0000	01B70	.WORD	0, 19	:
0014	0000	01B74	.WORD	0, 20	:
0015	0015	01B78	.WORD	21, 21	:
0015	0015	01B7C	.WORD	21, 21	:
0015	0015	01B80	.WORD	21, 21	:
0015	0015	01B84	.WORD	21, 21	:
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0015	0015	01B94	.WORD	21, 21	:
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0015	0015	01BA8	.WORD	21, 21	:
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0015	0015	01BB0	.WORD	21, 21	:
0013	0013	01BB4	.WORD	19, 19	:
0015	0015	01BB8	.WORD	21, 21	:
0015	0015	01BBC	.WORD	21, 21	:
0015	0015	01BC0	.WORD	21, 21	:
0015	0015	01BC4	.WORD	21, 21	:
0013	0000	01BC8	.WORD	0, 19	:
0014	0000	01BCC	.WORD	0, 20	:
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0015	0015	01C1C	.WORD	21,	21	:
0015	0015	01C20	.WORD	21,	21	:
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0015	0015	01C28	.WORD	21,	21	:
0015	0015	01C2C	.WORD	21,	21	:
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0015	0015	01C48	.WORD	21,	21	:
0015	0015	01C4C	.WORD	21,	21	:
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0015	0015	01C58	.WORD	21,	21	:
0015	0015	01C5C	.WORD	21,	21	:
0015	0015	01C60	.WORD	21,	21	:
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0015	0015	01C68	.WORD	21,	21	:
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0015	0015	01C74	.WORD	21,	21	:
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0014	0000	01C7C	.WORD	0,	20	:
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0015	0015	01C84	.WORD	21,	21	:
0015	0015	01C88	.WORD	21,	21	:
0015	0015	01C8C	.WORD	21,	21	:
0015	0015	01C90	.WORD	21,	21	:
0015	0015	01C94	.WORD	21,	21	:
0015	0015	01C98	.WORD	21,	21	:
0015	0015	01C9C	.WORD	21,	21	:
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0015	0015	01CA4	.WORD	21,	21	:
0015	0015	01CA8	.WORD	21,	21	:
0015	0015	01CAC	.WORD	21,	21	:
0015	0015	01CB0	.WORD	21,	21	:
0015	0015	01CB4	.WORD	21,	21	:
0015	0015	01CB8	.WORD	21,	21	:
0013	0013	01CBC	.WORD	19,	19	:
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0015	0015	01CC8	.WORD	21,	21	:
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0014	0000	01CD4	.WORD	0,	20	:
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0015	0015	01CE4	.WORD	21,	21	:
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0015	0015	01CFC	.WORD	21,	21	:
0015	0015	01D00	.WORD	21,	21	:
0015	0015	01D04	.WORD	21,	21	:
0015	0015	01D08	.WORD	21,	21	:
0015	0015	01D0C	.WORD	21,	21	:
0015	0015	01D10	.WORD	21,	21	:
0013	0013	01D14	.WORD	19,	19	:
0015	0015	01D18	.WORD	21,	21	:
0015	0015	01D1C	.WORD	21,	21	:
0015	0015	01D20	.WORD	21,	21	:
0015	0015	01D24	.WORD	21,	21	:
0013	0000	01D28	.WORD	0,	19	:
0014	0000	01D2C	.WORD	0,	20	:
0015	0015	01D30	.WORD	21,	21	:
0015	0015	01D34	.WORD	21,	21	:
0015	0015	01D38	.WORD	21,	21	:
0015	0015	01D3C	.WORD	21,	21	:
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0015	0015	01D44	.WORD	21,	21	:
0015	0015	01D48	.WORD	21,	21	:
0015	0015	01D4C	.WORD	21,	21	:
0015	0015	01D50	.WORD	21,	21	:
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0015	0015	01D5C	.WORD	21,	21	:
0015	0015	01D60	.WORD	21,	21	:
0015	0015	01D64	.WORD	21,	21	:
0015	0015	01D68	.WORD	21,	21	:
0013	0013	01D6C	.WORD	19,	19	:
0015	0015	01D70	.WORD	21,	21	:
0015	0015	01D74	.WORD	21,	21	:
0015	0015	01D78	.WORD	21,	21	:
0015	0015	01D7C	.WORD	21,	21	:
0013	0000	01D80	.WORD	0,	19	:
0014	0000	01D84	.WORD	0,	20	:
0015	0015	01D88	.WORD	21,	21	:
0015	0015	01D8C	.WORD	21,	21	:
0015	0015	01D90	.WORD	21,	21	:
0015	0015	01D94	.WORD	21,	21	:
0015	0015	01D98	.WORD	21,	21	:
0015	0015	01D9C	.WORD	21,	21	:

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0015	0015	01DA8	.WORD	21, 21	:
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0015	0015	01DB4	.WORD	21, 21	:
0015	0015	01DB8	.WORD	21, 21	:
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0015	0015	01DD4	.WORD	21, 21	:
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0014	0000	01DDC	.WORD	0, 20	:
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0015	0015	01DE4	.WORD	21, 21	:
0015	0015	01DE8	.WORD	21, 21	:
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0015	0015	01DF8	.WORD	21, 21	:
0015	0015	01DFC	.WORD	21, 21	:
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0015	0015	01E04	.WORD	21, 21	:
0015	0015	01E08	.WORD	21, 21	:
0015	0015	01E0C	.WORD	21, 21	:
0015	0015	01E10	.WORD	21, 21	:
0015	0015	01E14	.WORD	21, 21	:
0015	0015	01E18	.WORD	21, 21	:
0013	0013	01E1C	.WORD	19, 19	:
0015	0015	01E20	.WORD	21, 21	:
0015	0015	01E24	.WORD	21, 21	:
0015	0015	01E28	.WORD	21, 21	:
0015	0015	01E2C	.WORD	21, 21	:
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0014	0000	01E34	.WORD	0, 20	:
0015	0015	01E38	.WORD	21, 21	:
0015	0015	01E3C	.WORD	21, 21	:
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0015	0015	01E44	.WORD	21, 21	:
0015	0015	01E48	.WORD	21, 21	:
0015	0015	01E4C	.WORD	21, 21	:
0015	0015	01E50	.WORD	21, 21	:
0015	0015	01E54	.WORD	21, 21	:
0015	0015	01E58	.WORD	21, 21	:
0015	0015	01E5C	.WORD	21, 21	:
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0015	0015	01E64	.WORD	21, 21	:
0015	0015	01E68	.WORD	21, 21	:
0015	0015	01E6C	.WORD	21, 21	:
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0015	0015	01E78	.WORD	21, 21	:

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0014	0000	01E8C	.WORD	0, 20	:
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0015	0015	01E94	.WORD	21, 21	:
0015	0015	01E98	.WORD	21, 21	:
0015	0015	01E9C	.WORD	21, 21	:
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0015	0015	01EB0	.WORD	21, 21	:
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0015	0015	01ED8	.WORD	21, 21	:
0012	0000	01EDC	.WORD	0, 18	:
0013	0000	01EE0	.WORD	0, 19	:
0014	0000	01EE4	.WORD	0, 20	:
0015	0015	01EE8	.WORD	21, 21	:

```

$MODULE=      P.AAA
CRD$GAW_MM_STATE_TABLE==
P.AAB
CRD$GAW_TQ_STATE_TABLE==
P.AAC
CRD$GAW_HS_STATE_TABLE==
P.AAD

```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	7916	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	33	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$CRD_LITERALS	Macro	Lib03	82	
\$EQU_LST	Macro	Lib04	82	
\$ER	Comptime	98		
\$HS_ENTRY\$	Unbound		291 294 296 298 301 318 320 740 761 769	
		782 787 795 803 811 819 827 835 841 849		
		857 865 871 879 885 893 901 909 923 937		
		943 950 958 961 969 977 982 990 998 1006		
Comptime		1014 1022 1030 1038 1046		
		283 740 761 769 782 787 795 803 811 819 827		
		835 841 849 857 865 871 879 885 893 901		
		909 923 937 943 950 958 961 969 977 982		
		990 998 1006 1014 1022 1030 1038 1046		
\$HS_PREV_COLUMN\$	Unbound		335 338 347 353 740 761 769 782 795 803	
		811 819 827 835 841 849 857 865 871 879		
		885 893 901 909 923 937 943 950 958 969		
		977 990 998 1006 1014 1022 1030 1038 1046		
Comptime		281 740 761 769 782 787 795 803 811 819 827		
		835 841 849 857 865 871 879 885 893 901		
		909 923 937 943 950 958 969 977 982 990		
		998 1006 1014 1022 1030 1038 1046		
\$HS_ROWS\$	Unbound		293 299 740 761 769 782 787 795 803 811	
		819 827 835 841 849 857 865 871 879 885		
		893 901 909 923 937 943 950 958 961 969		
		977 982 990 998 1006 1014 1022 1030 1038 1046		
Comptime		284 740 761 769 782 787 795 803 811 819 827		
		835 841 849 857 865 871 879 885 893 901		
		909 923 937 943 950 958 961 969 977 982		
		990 998 1006 1014 1022 1030 1038 1046		
\$HS_WINDOW_SIZE\$	Unbound		338 340 342 353 355 357 740 761 769 782	
		787 795 803 811 819 827 835 841 849 857		
		865 871 879 885 893 901 909 923 937 943		
		950 958 969 977 982 990 998 1006 1014 1022		
Comptime		1030 1038 1046 761 769 782 787 795 803 811 819 827		
		282 740 761 769 782 787 795 803 811 819 827		
		835 841 849 857 865 871 879 885 893 901		
		909 923 937 943 950 958 969 977 982 990		
		998 1006 1014 1022 1030 1038 1046		
\$MM_ENTRY\$	Unbound		125 128 130 132 135 152 154 393 411 417	
		425 430 435 440 445 450 455 460 465 470		
		475 480 485 490 495 500 505 510 518 526		
		531 536 541 544 549 554 559 562 565 570		
Comptime		573 578 583 588 591 430 435 440 445 450 455		
		117 393 411 417 425 430 435 440 445 450 455		
		460 465 470 475 480 485 490 495 500 505		
		510 518 526 531 536 541 549 554 559 570		
		562 565 570 573 578 583 588 591 598 603		
\$MM_PREV_COLUMN\$	Unbound		169 172 181 187 393 411 417 425 518 526	
Comptime		115 393 411 417 425 430 435 440 445 450 455		
		460 465 470 475 480 485 490 495 500 505		
		510 518 526 531 536 541 549 554 559 570		
		578 583 588 591 598 603 608 613 618 623		
\$MM_ROWS\$	Unbound		127 133 393 411 417 425 430 435 440 445	
		450 455 460 465 470 475 480 485 490 495		

Symbol	Type	Defined	Referenced	...
		500	505	510
		554	559	562
Comptime		118	393	411
		460	465	470
		510	518	526
		562	565	570
\$MM_WINDOW_SIZE\$	Unbound			172
		518	526	
Comptime		116	393	411
		460	465	470
		510	518	526
		578	583	588
\$MODULE	Bind		98	
\$TQ_ENTRY\$	Unbound			208
		618	621	624
		648	651	654
		678	681	684
		708	711	714
Comptime		200	600	612
		639	642	645
		669	672	675
		699	702	705
\$TQ_PREV_COLUMN\$	Unbound			252
Comptime		198	612	
\$TQ_ROWS\$	Unbound			210
		633	636	639
		663	666	669
		693	696	699
Comptime		201	600	612
		639	642	645
		669	672	675
		699	702	705
\$TQ_WINDOW_SIZE\$	Unbound			255
Comptime		199	612	
ACTION	MacrForm		166	179
	MacrForm	249	262	
	MacrForm	332	345	
ACTION_ROUTINE	MacrForm		121	123
	MacrForm	141	142	
	MacrForm	204	206	
	MacrForm	224	225	
	MacrForm	287	289	
	MacrForm	307	308	
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal			82
AUTOSK_EXIT_CONTROL_C	Literal			82
AUTOSK_EXIT_DUMMY_2	Literal			82
AUTOSK_EXIT_DUMMY_3	Literal			82
AUTOSK_EXIT_ERRORS_COMPLETE	Literal			82
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal			82
AUTOSK_EXIT_INTERNAL_ERROR	Literal			82
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal			82
AUTOSK_EXIT_LAST_REASON	Literal			82
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal			82

Symbol	Type	Defined	Referenced ...
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal	82	
AUTO\$K_EXIT_NOERRORS_PREP	Literal	82	
COLUMN	MacrForm	166 172 181	
	MacrForm	249 255 264	
	MacrForm	332 338 347	
CRD\$GAW_HS_STATE_TABLE	External Lib03		
	GlobBind	727	
CRD\$GAW_MM_STATE_TABLE	External Lib03		
	GlobBind	386	
CRD\$GAW_TQ_STATE_TABLE	External Lib03		
	GlobBind	598	
CRD\$GA_HS_CURRENT_DDB_PTR	Global	372 Lib03e	
CRD\$GA_HS_CURRENT_HSB_PTR	Global	373 Lib03e	
CRD\$GB_CURRENT_STATE_TABLE	Global	376 Lib03e	
CRD\$GL_HS_CURRENT_HSB_NUMB	Global	374 Lib03e	
CRD\$GL_HS_CURRENT_STATE	Global	368 Lib03e	
CRD\$GL_MM_CURRENT_STATE	Global	366 Lib03e	
CRD\$GL_PREVIOUS_STATE	Global	364 Lib03e	
CRD\$GL_TQ_CURRENT_STATE	Global	367 Lib03e	
CRD\$GL_TQ_CURRENT_TQ_ENTRY	Global	370 Lib03e	
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	82	
CRD\$K_ACTION_RANGE_ERROR	Literal	82	
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	82	
CRD\$K_ADVANCE_GENERAL_COM	Literal	82	
CRD\$K_ADVANCE_STATE	Literal	82	
CRD\$K_ALLOCATION_ERROR	Literal	82	
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	82	
CRD\$K_AUTOSIZER_ERROR	Literal	82	
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	82	
CRD\$K_BAD_ACTION_NUMBER	Literal	82	
CRD\$K_BAD_TYPECODE_ERROR	Literal	82	
CRD\$K_BASE_SYSTEM_IDC	Literal	82	
CRD\$K_BASE_SYSTEM_LESI	Literal	82	
CRD\$K_BASE_SYSTEM_NULL	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	82	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	82	
CRD\$K_CRD_INITIALIZATION	Literal	82	
CRD\$K_CREATE_HST	Literal	82	
CRD\$K_DATA_LENGTH_ERROR	Literal	82	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_BLINK	Literal	82	
CRD\$K_DDB_FLINK	Literal	82	
CRD\$K_DDB_LAST_ENTRY	Literal	82	
CRD\$K_DDB_MEMORY_SIZE	Literal	82	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	82	
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	82	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	82	
CRD\$K_DDB_PTABLE_ENTRY	Literal	82	
CRD\$K_DDB_STATUS	Literal	82	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	82	

Symbol	Type	Defined	Referenced	...
CRD\$K_DEVICE_NAME	Literal	82		
CRD\$K_DIAGNOSTIC_ERROR	Literal	82		
CRD\$K_DIAGNOSTIC_NAME	Literal	82		
CRD\$K_DONE_GENERAL_COMS	Literal	82		
CRD\$K_DO_NOTHING	Literal	82		
CRD\$K_DUMMY_10	Literal	82		
CRD\$K_DUMMY_11	Literal	82		
CRD\$K_DUMMY_12	Literal	82		
CRD\$K_DUMMY_13	Literal	82		
CRD\$K_DUMMY_3	Literal	82		
CRD\$K_DUMMY_4	Literal	82		
CRD\$K_DUMMY_5	Literal	82		
CRD\$K_DUMMY_6	Literal	82		
CRD\$K_DUMMY_7	Literal	82		
CRD\$K_DUMMY_8	Literal	82		
CRD\$K_DUMMY_9	Literal	82		
CRD\$K_EXIT_CRD	Literal	82		
CRD\$K_HOOK_POINT	Literal	82		
CRD\$K_HS_INTERNAL_ERROR	Literal	82		
CRD\$K_IDC_EVDLB	Literal	82		
CRD\$K_IDC_EVDLC	Literal	82		
CRD\$K_IDC_EVDLD	Literal	82		
CRD\$K_IDC_EVRAD_0	Literal	82		
CRD\$K_IDC_EVRAD_1	Literal	82		
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	82		
CRD\$K_INTERNAL_ERROR	Literal	82		
CRD\$K_LAST_ACTION_ROUTINE	Literal	82		
CRD\$K_LAST_ENTRY	Literal	82		
CRD\$K_LAST_FUNCTION	Literal	82		
CRD\$K_LAST_HOOK_POINT	Literal	82		
CRD\$K_LAST_INTERNAL_ERROR	Literal	82		
CRD\$K_LAST_TYPE	Literal	82		
CRD\$K_LESI_ENWCA	Literal	82		
CRD\$K_LESI_EVRMB_0	Literal	82		
CRD\$K_LESI_EVRMB_1	Literal	82		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	82		
CRD\$K_LEVEL_4_PASSED	Literal	82		
CRD\$K_LOAD_AUTOSIZER	Literal	82		
CRD\$K_LOAD_ERROR	Literal	82		
CRD\$K_LOAD_GENERAL_COM	Literal	82		
CRD\$K_LOAD_LOAD_COM	Literal	82		
CRD\$K_LOAD_SELECT_COM	Literal	82		
CRD\$K_LOAD_SET_EVENT_COM	Literal	82		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	82		
CRD\$K_LOAD_START_COM	Literal	82		
CRD\$K_LOAD_SUP_FILE	Literal	82		
CRD\$K_MM_INTERNAL_ERROR	Literal	82		
CRD\$K_NEW_LINE	Literal	82		
CRD\$K_NUMB_TYPECODES	Literal	Lib03	383	594 723 1049
CRD\$K_PREPARATION_ERROR	Literal	82		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	82		
CRD\$K_RUNTIME	Literal	82		
CRD\$K_SAME_LINE	Literal	82		

Symbol	Type	Defined	Referenced	...
CRD\$K_SET_EVENT_ARGS	Literal	82		
CRD\$K_SET_FLAGS_ARGS	Literal	82		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	82		
CRD\$K_START	Literal	82		
CRD\$K_START_AUTOSIZER	Literal	82		
CRD\$K_START_ERROR	Literal	82		
CRD\$K_START_QUALIFIERS	Literal	82		
CRD\$K_STAR_LINE	Literal	82		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	82		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	82		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	82		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	82		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	82		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	82		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	82		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	82		
CRD\$K_STATE_DUMMY_1	Literal	82		
CRD\$K_STATE_DUMMY_10	Literal	82		
CRD\$K_STATE_DUMMY_12	Literal	82		
CRD\$K_STATE_DUMMY_13	Literal	82		
CRD\$K_STATE_DUMMY_2	Literal	82		
CRD\$K_STATE_DUMMY_3	Literal	82		
CRD\$K_STATE_DUMMY_4	Literal	82		
CRD\$K_STATE_DUMMY_6	Literal	82		
CRD\$K_STATE_DUMMY_7	Literal	82		
CRD\$K_STATE_DUMMY_8	Literal	82		
CRD\$K_STATE_EXIT_CRD	Literal	82		
CRD\$K_STATE_INTERNAL_ERROR	Literal	82		
CRD\$K_STATE_LAST_STATE	Literal	82		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	82		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	82		
CRD\$K_STATE_LOAD_ERROR	Literal	82		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	82		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	82		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	82		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	82		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	82		
CRD\$K_STATE_LOAD_START_COM	Literal	82		
CRD\$K_STATE_PREPARATION_ERROR	Literal	82		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	82		
CRD\$K_STATE_START	Literal	82		
CRD\$K_STATE_START_AUTOSIZER	Literal	82		
CRD\$K_STATE_START_ERROR	Literal	82		
CRD\$K_TEST_START_TEXT	Literal	82		
CRD\$K_TQ_INTERNAL_ERROR	Literal	82		
CRD\$K_TYPECODE	Literal	82		
CRD\$K_UDA_0_EVDLB	Literal	82		
CRD\$K_UDA_0_EVDLC	Literal	82		
CRD\$K_UDA_0_EVDLD	Literal	82		
CRD\$K_UDA_0_EVRLA_0	Literal	82		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	82		

Symbol	Type	Defined	Referenced	...
CRD\$K-UDA_1-EVDLB	Literal	82		
CRD\$K-UDA_1-EVDLC	Literal	82		
CRD\$K-UDA_1-EVDLD	Literal	82		
CRD\$K-UDA_1-EVRLA_0	Literal	82		
CRD\$K-UDA_1-EVRLA_1	Literal	82		
CRD\$K-UDA_1-LAST_DIAGNOSTIC	Literal	82		
CRD\$K-UDA_2-EVDLB	Literal	82		
CRD\$K-UDA_2-EVDLC	Literal	82		
CRD\$K-UDA_2-EVDLD	Literal	82		
CRD\$K-UDA_2-EVRLA_0	Literal	82		
CRD\$K-UDA_2-LAST_DIAGNOSTIC	Literal	82		
CRD\$K-UDA_3-EVDLB	Literal	82		
CRD\$K-UDA_3-EVDLC	Literal	82		
CRD\$K-UDA_3-EVDLD	Literal	82		
CRD\$K-UDA_3-EVRLA_0	Literal	82		
CRD\$K-UDA_3-EVRLA_1	Literal	82		
CRD\$K-UDA_3-LAST_DIAGNOSTIC	Literal	82		
CRD_ASSERT	Macro	Lib03	382	
GET1ST	Macro	Lib04	82	
GET2ND	Unbound		82	
HS\$FILL_FULL_ROW	Macro		317	961
HS\$FILL_N_ENTRYS	Unbound		308	322 342 357 740 761 769 782 787 795
			803 811 819 827 835 841 849 857 865 871	
			879 885 893 901 909 923 937 943 950 958	
			969 977 982 990 998 1006 1014 1022 1030 1038	
			1046	
Macro			287 740 761 769 782 787 795 803 811 819 827	
			835 841 849 857 865 871 879 885 893 901	
			909 923 937 943 950 958 961 969 977 982	
			990 998 1006 1014 1022 1030 1038 1046	
HS\$INSERT_ENTRYS	Unbound		312 345 740 761 769 782 787 795 803 811	
			819 827 835 841 849 857 865 871 879 885	
			893 901 909 923 937 943 950 958 969 977	
			982 990 998 1006 1014 1022 1030 1038 1046	
Macro			307 740 761 769 782 787 795 803 811 819 827	
			835 841 849 857 865 871 879 885 893 901	
			909 923 937 943 950 958 969 977 982 990	
			998 1006 1014 1022 1030 1038 1046	
HS\$INSERT_N	Unbound		351 740 761 769 782 787 795 803 811 819	
			827 835 841 849 857 865 871 879 885 893	
			901 909 923 937 943 950 958 969 977 982	
			990 998 1006 1014 1022 1030 1038 1046	
Macro			332 729 740 743 761 764 769 772 782 785 790	
			795 798 803 806 811 814 819 822 827 830	
			835 838 841 844 849 852 857 860 865 868	
			871 874 879 882 885 888 893 896 901 904	
			909 912 923 926 937 940 943 946 950 953	
			958 964 969 972 977 980 985 990 993 998	
			1001 1006 1009 1014 1017 1022 1025 1030 1033 1038	
			1041 1046	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal		82 761	
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal		82 761	
HS\$K_ACTION_ADVANCE_STATE	Literal		82 761	

Symbol	Type	Defined	Referenced	...
HS\$K_ACTION_CHANGE_TABLE	Literal	82 761		
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	82 769 795 803 811 819 827 835 841 849 857	893 901 909 958 977 990 998 1006 1014 1022	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	82 761		
HS\$K_ACTION_DO_NOTHING	Literal	82 740 769 782 795 803 811 819 827 835 849	857 865 871 879 885 893 901 909 923 937 943 950 958 969 977 990 998 1006 1014 1022	
HS\$K_ACTION_DUMMY_3	Literal	82		
HS\$K_ACTION_DUMMY_4	Literal	82		
HS\$K_ACTION_DUMMY_5	Literal	82		
HS\$K_ACTION_DUMMY_6	Literal	82		
HS\$K_ACTION_INIT_HS	Literal	82 761		
HS\$K_ACTION_INTERNAL_ERROR	Literal	82 740 761 769 782 787 795 803 811 819 827	835 841 849 857 865 871 879 885 893 901 909 923 937 943 950 958 961 969 977 982 990 998 1006 1014 1022 1030 1038 1046	
HS\$K_ACTION_LAST_ACTION	Literal	82		
HS\$K_ACTION_LOAD_ERROR	Literal	82 782 923		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	82 761		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	82 761		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	82 761		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	82 761		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	82 761		
HS\$K_ACTION_LOAD_START_COM	Literal	82 761		
HS\$K_ACTION_PREPARATION_ERROR	Literal	82 969		
HS\$K_ACTION_START_ERROR	Literal	82 782 923 950		
HS\$K_NUMB_STATES	Unbound	291 296 322 353 740 761 769 782 787 795	803 811 819 827 835 841 849 857 865 871 879 885 893 901 909 923 937 943 950 958 961 969 977 982 990 998 1006 1014 1022 1030 1038 1046 1049	
Literal Lib03		740 761 769 782 787 795 803 811 819 827	835 841 849 857 865 871 879 885 893 901 909 923 937 943 950 958 961 969 977 982 990 998 1006 1014 1022 1030 1038 1046 1049	
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	82 761		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	82 761		
HS\$K_STATE_CHANGE_TABLE	Literal	82 761		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	82 740 761 769 782 795 803 811 819 827 835	841 849 857 865 879 893 901 909 923 937 943 950 958 969 977 990 998 1006 1014 1022 1030 1038	
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	82 740 761 769 782 795 803 811 819 827 835	841 849 857 865 871 879 885 893 901 909 923 937 943 950 958 969 977 990 998 1006	
HS\$K_STATE_DONE_GENERAL_COMS	Literal	82 761		
HS\$K_STATE_DUMMY_1	Literal	82		
HS\$K_STATE_DUMMY_2	Literal	82		
HS\$K_STATE_DUMMY_3	Literal	82		
HS\$K_STATE_DUMMY_4	Literal	82		

Symbol	Type	Defined	Referenced	...
HS\$K_STATE_DUMMY_6	Literal	82		
HS\$K_STATE_INIT_HS	Literal	82	761	
HS\$K_STATE_INTERNAL_ERROR	Literal	82	740 761 769 782 787 795 803 811 819 827	
		835 841 849 857 865 871 879 885 893 901		
		909 923 937 943 950 958 961 969 977 982		
		990 998 1006 1014 1022 1030 1038 1046		
HS\$K_STATE_LAST_STATE	Literal	82		
HS\$K_STATE_LOAD_ERROR	Literal	82	740 761 782 923 937	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	82	761	
HS\$K_STATE_LOAD_LOAD_COM	Literal	82	761	
HS\$K_STATE_LOAD_SELECT_COM	Literal	82	761 782 923 937	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	82	761 782 923 937	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	82	761 782 923 937	
HS\$K_STATE_LOAD_START_COM	Literal	82	761 782 923 937	
HS\$K_STATE_PREPARATION_ERROR	Literal	82	740 761 769 782 795 803 811 819 827 835	
		849 857 865 879 893 901 909 923 937 958		
		969 977 990 998 1006 1014 1022 1030 1038 1046		
HS\$K_STATE_START_ERROR	Literal	82	740 761 782 923 937 950 1046	
HS_STATE_TABLE_STRUCTURE	Structur	Lib03	1049	
INTERNAL_ERROR	Unbound	156	176 191 239 259 274 322 342 357 393	
		411 417 425 518 526 612 740 761 769 782		
		787 795 803 811 819 827 835 841 849 857		
		865 871 879 885 893 901 909 923 937 943		
		950 958 969 977 982 990 998 1006 1014 1022		
		1030 1038 1046		
MEN\$K_HS_STATE_TABLE	Literal	82		
MEN\$K_MM_STATE_TABLE	Literal	82		
MEN\$K_TQ_STATE_TABLE	Literal	82		
MENU\$K_EXIT_AUTOSIZER_ERROR	Literal	82		
MENU\$K_EXIT_INTERNAL_ERROR	Literal	82		
MENU\$K_EXIT_LAST_REASON	Literal	82		
MENU\$K_EXIT_OPERATOR_ABORT	Literal	82		
MENU\$K_EXIT_OPERATOR_STOP	Literal	82		
MENU\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	82		
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	82		
MM\$FILL_FULL_ROW	Macro	151	544 562 565 573 591	
MM\$FILL_N_ENTRYS	Unbound	142	156 176 191 393 411 417 425 518 526	
	Macro	121	393 411 417 425 430 435 440 445 450 455	
		460 465 470 475 480 485 490 495 500 505		
		510 518 526 531 536 541 544 549 554 559		
		562 565 570 573 578 583 588 591		
MM\$INSERT_ENTRYS	Unbound	146	179 393 411 417 425 430 435 440 445	
		450 455 460 465 470 475 480 485 490 495		
		500 505 510 518 526 531 536 541 549 554		
		559 570 578 583 588		
	Macro	141	393 411 417 425 430 435 440 445 450 455	
		460 465 470 475 480 485 490 495 500 505		
		510 518 526 531 536 541 549 554 559 570		
		578 583 588		
MM\$INSERT_N	Unbound	185	393 411 417 425 430 435 440 445 450	
		455 460 465 470 475 480 485 490 495 500		
		505 510 518 526 531 536 541 549 554 559		
		570 578 583 588		

Symbol	Type	Defined	Referenced	...
Macro	166	388	393	396 411 414 417 420 425 428 433
	438	443	448	453 458 463 468 473 478 483
	488	493	498	503 508 513 518 521 526 529
	534	539	547	552 557 568 576 581 586
MM\$K_ACTION_ADVANCE_STATE	Literal	82	411	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	82	393	417 425 430 435 440 445 450 455 460
	465	470	475	500 505 510 518 526 536 541
	549	554	578	583 588
MM\$K_ACTION_BUILD_DDBS	Literal	82	411	
MM\$K_ACTION_BUILD_HSTS	Literal	82	411	
MM\$K_ACTION_CHANGE_TABLE	Literal	82	411	
MM\$K_ACTION_DONE_INITS	Literal	82	411	
MM\$K_ACTION_DO_NOTHING	Literal	82	393	480 485 490 495 531 559
MM\$K_ACTION_DUMMY_3	Literal	82		
MM\$K_ACTION_DUMMY_4	Literal	82		
MM\$K_ACTION_DUMMY_5	Literal	82		
MM\$K_ACTION_DUMMY_6	Literal	82		
MM\$K_ACTION_DUMMY_7	Literal	82		
MM\$K_ACTION_DUMMY_8	Literal	82		
MM\$K_ACTION_INTERNAL_ERROR	Literal	82	393	411 417 425 430 435 440 445 450 455
	460	465	470	475 480 485 490 495 500 505
	510	518	526	531 536 541 544 549 554 559
	562	565	570	573 578 583 588 591
MM\$K_ACTION_LAST_ACTION	Literal	82		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	82	411	
MM\$K_ACTION_MENU_PROMPT	Literal	82	417	570
MM\$K_ACTION_PRINT_MENU	Literal	82	411	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	82	411	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	82	411	
MM\$K_ACTION_START_AUTOSIZER	Literal	82	411	
MM\$K_NUMB_STATES	Unbound	125	130	156 187 393 411 417 425 430 435
	440	445	450	455 460 465 470 475 480 485
	490	495	500	505 510 518 526 531 536 541
	544	549	554	559 562 565 570 573 578 583
	588	591		594
Literal Lib03	393	411	417	425 430 435 440 445 450 455
	460	465	470	475 480 485 490 495 500 505
	510	518	526	531 536 541 544 549 554 559
	562	565	570	573 578 583 588 591 594
MM\$K_STATE_AUTOSIZER_ERROR	Literal	82	393	417 425 430 435 440 445 450 455 460
	465	470	475	500 505 510 518 526 536 541
	549	554	578	583 588
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	82	393	411 417 425 430 435 440 445 450 455
	460	465	470	475 480 485 490 495 500 505
	510	518	526	531 536 541 549 554 578 583
	588			
MM\$K_STATE_BUILD_DDBS	Literal	82	411	
MM\$K_STATE_BUILD_HSTS	Literal	82	411	
MM\$K_STATE_CHANGE_TABLE	Literal	82	411	417 570
MM\$K_STATE_DONE_INITS	Literal	82	411	
MM\$K_STATE_DUMMY_1	Literal	82		
MM\$K_STATE_DUMMY_2	Literal	82		
MM\$K_STATE_DUMMY_3	Literal	82		

Symbol	Type	Defined	Referenced	...
MM\$K_STATE_DUMMY_5	Literal	82		
MM\$K_STATE_DUMMY_7	Literal	82		
MM\$K_STATE_DUMMY_8	Literal	82		
MM\$K_STATE_INTERNAL_ERROR	Literal	82	393 411 417 425 430 435 440 445 450 455	
		460 465 470 475 480 485 490 495 500 505		
		510 518 526 531 536 541 544 549 554 559		
		562 565 570 573 578 583 588 591		
MM\$K_STATE_LAST_STATE	Literal	82		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	82	393 411 425 518 526	
MM\$K_STATE_MENU_PROMPT	Literal	82		
MM\$K_STATE_PRINT_MENU	Literal	82	411	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	82	411 559	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	82	393 411 425 518 526	
MM\$K_STATE_START	Literal	82	411 559	
MM\$K_STATE_START_AUTOSIZER	Literal	82	393 411 425 518 526	
MM_STATE_TABLE_STRUCTURE	Structur	Lib03	594	
MODNAM	Macro	Lib01	98	
N	MacrForm	121 122 125 130 135		
	MacrForm	204 205 208 213 218		
	MacrForm	287 288 291 296 301		
NEW_STATE	MacrForm	121 123		
	MacrForm	141 142		
	MacrForm	204 206		
	MacrForm	224 225		
	MacrForm	287 289		
	MacrForm	307 308		
NUL2ND	Macro	Lib04	82	
STATE	MacrForm	166 179		
	MacrForm	249 262		
	MacrForm	332 345		
TQ\$FILL_FULL_ROW	Macro	234 600 615 618 621 624 627 630 633 636 639		
		642 645 648 651 654 657 660 663 666 669		
		672 675 678 681 684 687 690 693 696 699		
		702 705 708 711 714 717 720		
TQ\$FILL_N_ENTRYS	Unbound	225 239 259 274 612		
	Macro	204 600 612 615 618 621 624 627 630 633 636		
		639 642 645 648 651 654 657 660 663 666		
		669 672 675 678 681 684 687 690 693 696		
		699 702 705 708 711 714 717 720		
TQ\$INSERT_ENTRYS	Unbound	229 262 612		
	Macro	224 612		
TQ\$INSERT_N	Unbound	268 612		
	Macro	249 603 612		
TQ\$K_ACTION_ADVANCE_STATE	Literal	82		
TQ\$K_ACTION_CHANGE_TABLE	Literal	82	612	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	82	612	
TQ\$K_ACTION_DO_NOTHING	Literal	82		
TQ\$K_ACTION_DUMMY_3	Literal	82		
TQ\$K_ACTION_DUMMY_4	Literal	82		
TQ\$K_ACTION_DUMMY_5	Literal	82		
TQ\$K_ACTION_GET_DDB	Literal	82	612	
TQ\$K_ACTION_INIT_TQ	Literal	82	612	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	82	600 612 615 618 621 624 627 630 633 636	

Symbol	Type Defined Referenced ...											
	639	642	645	648	651	654	657	660	663	666		
	669	672	675	678	681	684	687	690	693	696		
	699	702	705	708	711	714	717	720				
TQ\$K_ACTION_LAST_ACTION	Literal 82											
TQ\$K_NUMB_STATES	Unbound 208 213 239 270 600 612 615 618 621 624											
	627	630	633	636	639	642	645	648	651	654		
	657	660	663	666	669	672	675	678	681	684		
	687	690	693	696	699	702	705	708	711	714		
	717	720										
Literal Lib03	600	612	615	618	621	624	627	630	633	636		
	639	642	645	648	651	654	657	660	663	666		
	669	672	675	678	681	684	687	690	693	696		
	699	702	705	708	711	714	717	720	723			
TQ\$K_STATE_CHANGE_TABLE	Literal 82 612											
TQ\$K_STATE_DONE_TEST_QUEUE	Literal 82 612											
TQ\$K_STATE_DUMMY_1	Literal 82											
TQ\$K_STATE_DUMMY_2	Literal 82											
TQ\$K_STATE_DUMMY_3	Literal 82											
TQ\$K_STATE_DUMMY_4	Literal 82											
TQ\$K_STATE_DUMMY_5	Literal 82											
TQ\$K_STATE_GET_DDB	Literal 82 612											
TQ\$K_STATE_INIT_TQ	Literal 82 612											
TQ\$K_STATE_INTERNAL_ERROR	Literal 82 600 612 615 618 621 624 627 630 633 636											
	639	642	645	648	651	654	657	660	663	666		
	669	672	675	678	681	684	687	690	693	696		
	699	702	705	708	711	714	717	720				
TQ\$K_STATE_LAST_STATE	Literal 82											
TQ_STATE_TABLE_STRUCTURE	Structur Lib03 723											

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]MENSTATE.B32;1
2	Module	MENSTATE
70	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
73	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
76	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
79	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
1051	Eludom	MENSTATE

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- a Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics

File	Symbols			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	0	0	94	00:00.2
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	21	4	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			3	0
				1000	00:04.3

COMMAND QUALIFIERS

BLISS MENSTATE.B32/LIST=MENSTATE.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MENSTATE.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

Size: 0 code + 7949 data bytes

Run Time: 01:06.0

Elapsed Time: 01:21.3

Lines/CPU Min: 955

Lexemes/CPU-Min: 92332

Memory Used: 279 pages

Compilation Complete


```
: 0001 0
: 0002 0 xTITLE 'CRD MENU - Test Routines'
: 0003 0 MODULE MENTST (
: 0004 0 IDENT = '01-04'
: 0005 0 ) =
: 0006 0 !
: 0007 0 ! COPYRIGHT (C) 1982
: 0008 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0009 0 !
: 0010 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0011 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
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```

```
: 0025 0 !**
: 0026 0 ! FACILITY:
: 0027 0 !
: 0028 0 ! ABSTRACT:
: 0029 0 !
: 0030 0 ! ENVIRONMENT:
: 0031 0 !
: 0032 0 ! AUTHOR:
: 0033 0 !
: 0034 0 ! John Ciukaj May-1982
: 0035 0 !
: 0036 0 ! CREATION DATE:
: 0037 0 !
: 0038 0 ! VERSION:
: 0039 0 !
: 0040 0 ! Modified by:
: 0041 0 !
: 0042 0 ! 01 Jack Stansbury, 03-Mar-1983, Version 1.2
: 0043 0 !   Made the MEN$Preparation_Err_Text routine more robust.
: 0044 0 !
: 0045 0 ! 02 John Ciukaj 27-Apr-1983 version 1.2
: 0046 0 !   Made the MEN$Preparation_Err_Text routine LESS robust.
: 0047 0 !
: 0048 0 ! 03 Scott Cohen 28-Jun-1983 Version 1.2
: 0049 0 !   Added soft console support
: 0050 0 !   - routine MEN$Menu_Summary,
: 0051 0 !
: 0052 0 ! 04 Scott Cohen 23-Sep-1983 Version 1.3
: 0053 0 !   Added new soft console terminal (TT$_VS125) the PEARL
: 0054 0 !
: 0055 0 ! --
```

```
: 0056 0 xSBTTL 'Libraries'
: 0057 1 BEGIN
: 0058 1
: 0059 1
: 0060 1 LIBRARY '$DS';
: 0061 1 LIBRARY '$DIAG';
: 0062 1 LIBRARY '$CRD';
: 0063 1 LIBRARY 'SYS$LIBRARY:LIB';
```

```
; 0064 1 xSBTTL 'Forward-External Routines'
; 0065 1
; 0066 1 FORWARD ROUTINE
; 0067 1 MEN$Scratch_Media_Msg : ADDRESSING_MODE (LONG_RELATIVE),
; 0068 1 MEN$FncTst_CmplErr_Status : ADDRESSING_MODE (LONG_RELATIVE),
; 0069 1 MEN$FncTst_TestStrt_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 0070 1 MEN$Print_Failed_Hdwr : ADDRESSING_MODE (LONG_RELATIVE),
; 0071 1 MEN$Print_Runtime_Total : ADDRESSING_MODE (LONG_RELATIVE),
; 0072 1 MEN$CVT_Time_ASC_D : ADDRESSING_MODE (LONG_RELATIVE),
; 0073 1 MEN$Scan_Numeric_ASC_D : ADDRESSING_MODE (LONG_RELATIVE),
; 0074 1 MEN$Preparation_Err_Text : ADDRESSING_MODE (LONG_RELATIVE),
; 0075 1 MEN$Menu_Summary : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
```

```
; 0076 1 xSBTTL 'Psect Definitions'
; 0077 1
; 0078 1 PSECT
; 0079 1      Plit = Data (NoExecute, Share, NoWrite, Addressing_Mode (Long_Relative));
; 0080 1 PSECT
; 0081 1      Code = Code (Execute, Share, NoWrite, Addressing_Mode (Long_Relative), PIC);
; 0082 1 PSECT
; 0083 1      Own = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
; 0084 1 PSECT
; 0085 1      Global = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
```

ZZ-ENSAB-2.0 Module-Global Static Storage D 3 19-Sep-1985 Fiche 8 Frame D3 Sequence 1471
MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Page 6
01-04 Module-Global Static Storage 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (6)

```
: 0086 1 xSBTTL 'Module-Global Static Storage'
: 0087 1
: 0088 1        Modnam ('MENTST');    ! Module Name for Errsup Macro
```

ZZ-ENSAB-2.0 Own Storage E 3
MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame E3
01-04 Own Storage 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (7) Page 7 Sequence 1472

```
: 0089 1 xSBTTL 'Own Storage'
: 0090 1
: 0091 1 LITERAL
: 0092 1 DevNam_String_Buf_Sz = 256;
: 0093 1 OWN
: 0094 1 DevNam_String_Buf : VECTOR (DevNam_String_Buf_Sz, BYTE);
```

ZZ-ENSAB-2.0 Macro - Literal Definitions F 3
MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 8 Frame F3 Sequence 1473
01-04 Macro - Literal Definitions 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 Page 8 (8)

```
; 0095 1 xSBTTL 'Macro - Literal Definitions'
; 0096 1
; 0097 1 $CRD_Literals;
; 0098 1 $MEN_Literals;
; 0099 1 $SCREEN_Literals;
```



```

: 0100 1 xSBTTL 'MEN$FncTst_CmplErr_Status Routine'
: 0101 1
: 0102 1 GLOBAL ROUTINE MEN$FncTst_CmplErr_Status =
: 0103 1
: 0104 1 !++
: 0105 1 ! FUNCTIONAL DESCRIPTION:
: 0106 1 !
: 0107 1 !     Determines the Completion and Error status of the CRD MENU Functional Test run, and
: 0108 1 !     prints formatted messages.
: 0109 1 !
: 0110 1 !     The test run is considered 'complete' if the DDB Status bit DDB$V_Status_Dev_Test_Complete
: 0111 1 !     is set, or true, for every DDB found in the Test Queue Table (MEN$GA_Test_Queue).
: 0112 1 !
: 0113 1 !     The test run is considered to have a 'no error' status if the DDB$V_Status_Device_Bad
: 0114 1 !     is clear, or false, for every DDB found in the Test Queue Table (MEN$GA_Test_Queue).
: 0115 1 !
: 0116 1 !
: 0117 1 ! INPUT PARAMETERS
: 0118 1 !
: 0119 1 ! OUTPUT PARAMETERS
: 0120 1 !
: 0121 1 ! IMPLICIT INPUTS
: 0122 1 !
: 0123 1 !     Test Queue table pointed to by MEN$GA_Test_Queue.
: 0124 1 !
: 0125 1 ! EXPLICIT OUTPUTS
: 0126 1 !
: 0127 1 !     MEN$GB_Test_In_Progress is specified false at the completion
: 0128 1 !     of this routine.
: 0129 1 !
: 0130 1 ! SIDE EFFECTS
: 0131 1 !
: 0132 1 !
: 0133 1 ! COMPLETION CODES
: 0134 1 !
: 0135 1 !     CRD$K_Success
: 0136 1 ! --

```

```

: 0137 2 BEGIN
: 0138 2   REGISTER
: 0139 2   FncTst_Complete : INITIAL (True), ! Start with 'complete' status
: 0140 2   FncTst_Error   : INITIAL (False), ! Start with 'no error' status
: 0141 2   TstQ_Tbl_Index,
: 0142 2   TstQ_Tbl_Entries,
: 0143 2   TstQ_Tbl_Ptr   : REF VECTOR [, LONG],
: 0144 2   DDB_Ptr       : REF Device_data_Block_Structure,
: 0145 2   DDB_Status;
: 0146 2
: 0147 2   !*
: 0148 2   ! Set up for indexing into Test Queue Table
: 0149 2   !-
: 0150 2
: 0151 2   TstQ_Tbl_Index   = 0;
: 0152 2   TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 0153 2   TstQ_Tbl_Ptr     = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 0154 2
: 0155 2   !*
: 0156 2   ! Get a DDB pointer from the Test Queue Table until the 'complete'
: 0157 2   ! status and 'error' status is determined
: 0158 2   !-
: 0159 2
: 0160 2   WHILE (.TstQ_Tbl_Index LSS .TstQ_Tbl_Entries) AND ((DDB_Ptr = .TstQ_Tbl_Ptr [.TstQ_Tbl_Index]) NEQ 0) DO
: 0161 3   BEGIN
: 0162 3   DDB_Status      = .DDB_Ptr [CRD$K_DDB_Status];
: 0163 3   IF (.CRD$GB_CRD_Debug) THEN
: 0164 3     $CRD_Print ($ASCII ('MEN$FncTst_CmplErr_Status: Status = !XL(X)!/' ), .DDB_Status);
: 0165 3
: 0166 3   FncTst_Complete = .FncTst_Complete AND .DDB_Status <DDB$V_Status_Dev_Test_Complete>;
: 0167 3   FncTst_Error    = .FncTst_Error    OR  .DDB_Status <DDB$V_Status_Device_Bad>;
: 0168 3   TstQ_Tbl_Index  = .TstQ_Tbl_Index + 1;
: 0169 2   END;
: 0170 2
: 0171 2   !*
: 0172 2   ! Based upon the resultant 'complete' and 'error' status print appropriate messages
: 0173 2   !-
: 0174 2
: 0175 2   SELECTONE .FncTst_Complete OF
: 0176 2   SET
: 0177 2   [True]:
: 0178 2     SELECTONE .FncTst_Error OF
: 0179 2     SET
: 0180 2     [True]:
: 0181 3       BEGIN
: 0182 3       !
: 0183 3       ! Complete with errors
: 0184 3       !
: 0185 3       $CRD_Message (New_Line, MEN$GT_FncTst_Cmpl_Err);
: 0186 3       MEN$Print_Failed_Hdwr ();
: 0187 3       $CRD_Message (New_Line, MEN$GT_Call_FldSrv);
: 0188 2       END;
: 0189 2
: 0190 2   [False]:
: 0191 3   BEGIN
  
```

```

: 0192 3      !
: 0193 3      ! Complete, No Errors
: 0194 3      !
: 0195 3      $CRD_Message (New_Line, MEN$GT_FncTst_Cmpl_NoErr);
: 0196 2      END;
: 0197 2      TES;
: 0198 2
: 0199 2      [False]:
: 0200 2          SELECTONE .FncTst_Error OF
: 0201 2          SET
: 0202 2          [True]:
: 0203 3              BEGIN
: 0204 3              !
: 0205 3              ! Incomplete, with Errors
: 0206 3              !
: 0207 3              $CRD_Message (New_Line, MEN$GT_FncTst_InCmpl_Err);
: 0208 3              MEN$Print_Failed_Hdwr ();
: 0209 3              $CRD_Message (New_Line, MEN$GT_Call_FldSrv);
: 0210 2              END;
: 0211 2
: 0212 2          [False]:
: 0213 3              BEGIN
: 0214 3              !
: 0215 3              ! Incomplete, No Errors
: 0216 3              !
: 0217 3              $CRD_Message (New_Line, MEN$GT_FncTst_InCmpl_NoErr);
: 0218 3              $CRD_Message (New_Line, MEN$GT_Assistance_Msg);
: 0219 2              END;
: 0220 2          TES;
: 0221 2          TES;
: 0222 2          MEN$GB_Test_In_Progress = False;
: 0223 2          !Indicate that testing is no longer considered in progress
: 0224 2
: 0225 2          !+
: 0226 2          ! Print a menu summary when testing all devices
: 0227 2          ! NOTE: We are testing all devices whenever we
: 0228 2          ! are not testing only 1 device.
: 0229 2          !-
: 0230 3          IF (.TstQ_Tbl_Ptr [1] NEQ 0)
: 0231 2          THEN
: 0232 2          MEN$Menu_Summary ();
: 0233 2
: 0234 2          !+
: 0235 2          ! Soft console - pause and clear the screen before returning to MAIN MENU.
: 0236 2          !-
: 0237 2
: 0238 2          CRD$Screen_Pause (SCREEN$K_Press_Return_MM);          ! [03]
: 0239 2
: 0240 2
: 0241 2          RETURN (CRD$K_Success);
: 0242 1      END;

```

.TITLE MENTST CRD MENU - Test Routines
 .IDENT \01-04\

22-ENSAB-2.0 MEN\$FncTst_CmplErr_Status Routine J 3
 19-Sep-1985 Fiche 8 Frame J3
 MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Page 12
 01-04 MEN\$FncTst_CmplErr_Status Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (10)

Sequence 1477

.PSECT WORK,NOEXE,2

00000 DEVNAM_STRING_BUF:
.BLKB 256

.PSECT DATA,NOWRT,NOEXE, SHR,2

54 53 54 4E 45 4D 06 00000 P.AAA: .ASCII <6>\MENTST\
 70 6D 43 5F 74 73 54 63 6E 46 24 4E 45 4D 2C 00007 P.AAB: .ASCII \,MEN\$FncTst_CmplErr_Status: Status = !XL\
 74 53 20 3A 73 75 74 61 74 53 5F 72 72 45 6C 00016 ;
 4C 58 21 20 3D 20 73 75 74 61 00025 ;
 2F 21 29 58 28 0002F .ASCII \(\X)!\/
 ;

\$MODULE = P.AAA
 .EXTRN MEN\$SCRATCH_MEDIA_MSG
 .EXTRN MEN\$FNCTST_CMPLERR_STATUS
 .EXTRN MEN\$FNCTST_TESTSTRT_TEXT
 .EXTRN MEN\$PRINT_FAILED_HDWR
 .EXTRN MEN\$PRINT_RUNTIME_TOTAL
 .EXTRN MEN\$CVT_TIME_ASC_D
 .EXTRN MEN\$SCAN_NUMERIC_ASC_D
 .EXTRN MEN\$PREPARATION_ERR_TEXT
 .EXTRN MEN\$MENU_SUMMARY
 .EXTRN MEN\$GA_TEST_QUEUE
 .EXTRN CRD\$GB_CRD_DEBUG
 .EXTRN CRD\$PRINT, MEN\$GT_FNCTST_CMPL_ERR
 .EXTRN CRD\$GT_NEW_LINE_MESSAGE
 .EXTRN MEN\$GT_CALL_FLD\$RV
 .EXTRN MEN\$GT_FNCTST_CMPL_NOERR
 .EXTRN MEN\$GT_FNCTST_INCMPL_ERR
 .EXTRN MEN\$GT_FNCTST_INCMPL_NOERR
 .EXTRN MEN\$GT_ASSISTANCE_MSG
 .EXTRN MEN\$GB_TEST_IN_PROGRESS
 .EXTRN CRD\$SCREEN_PAUSE

.PSECT CODE,NOWRT, SHR, PIC,2

01FC 00000 .ENTRY MEN\$FNCTST_CMPLERR_STATUS, Save R2,R3,R4,- ; 0102
 R5,R6,R7,R8 ;
 52 01 7D 00002 MOVQ #1, FNCTST_COMPLETE ; 0137
 54 D4 00005 CLRL TSTQ_TBL_INDEX ; 0151
 55 00000000G EF 7D 00007 MOVQ MEN\$GA_TEST_QUEUE, TSTQ_TBL_ENTRIES ; 0152
 33 11 0000E BRB 3\$; 0160
 58 14 A7 D0 00010 1\$: MOVL 20(DDB_PTR), DDB_STATUS ; 0162
 13 00000000G EF E9 00014 BLBC CRD\$GB_CRD_DEBUG, 2\$; 0163
 58 DD 0001B PUSHL DDB_STATUS ; 0164
 00000000' EF 9F 0001D PUSHAB P.AAB ;
 01 DD 00023 PUSHL #1 ;
 1A DD 00025 PUSHL #26 ;
 00000000G FF 04 FB 00027 CALLS #4, @CRD\$PRINT ;
 50 58 01 05 EF 0002E 2\$: EXTZV #5, #1, DDB_STATUS, R0 ; 0166
 50 50 D2 00033 MCOML R0, R0 ;
 52 50 CA 00036 BICL2 R0, FNCTST_COMPLETE ;
 50 58 01 04 EF 00039 EXTZV #4, #1, DDB_STATUS, R0 ; 0167

```

53      50 C8 0003E   BISL2  R0, FNCTST_ERROR      ;
54      D6 00041   INCL   TSTQ_TBL_INDEX      ; 0168
55      54 D1 00043 3$: CMPL   TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES      ; 0160
06      18 00046   BGEQ   4$
57      6644 D0 00048   MOVL   (TSTQ_TBL_PTR)(TSTQ_TBL_INDEX), DDB_PTR      ;
C2      12 0004C   BNEQ   1$
01      52 D1 0004E 4$: CMPL   FNCTST_COMPLETE, #1      ; 0177
67      12 00051   BNEQ   8$
01      53 D1 00053   CMPL   FNCTST_ERROR, #1      ; 0180
42      12 00056   BNEQ   6$
00000000G EF 9F 00058   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0185
01      DD 0005E   PUSHL   #1
1A      DD 00060   PUSHL   #26
00000000G FF      03 FB 00062   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 00069   PUSHAB MEN$GT_FNCTST_CMPL_ERR      ;
01      DD 0006F 5$: PUSHL   #1
1A      DD 00071   PUSHL   #26
00000000G FF      03 FB 00073   CALLS  #3, @CRD$PRINT      ;
00000000V EF      00 FB 0007A   CALLS  #0, MEN$PRINT_FAILED_HDWR      ; 0186
00000000G EF 9F 00081   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0187
01      DD 00087   PUSHL   #1
1A      DD 00089   PUSHL   #26
00000000G FF      03 FB 0008B   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 00092   PUSHAB MEN$GT_CALL_FLDSRV      ;
7F      11 00098   BRB     10$
53      D5 0009A 6$: TSTL   FNCTST_ERROR      ; 0190
03      13 0009C   BEQL   7$
0083    31 0009E   BRW     11$
00000000G EF 9F 000A1 7$: PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0195
01      DD 000A7   PUSHL   #1
1A      DD 000A9   PUSHL   #26
00000000G FF      03 FB 000AB   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 000B2   PUSHAB MEN$GT_FNCTST_CMPL_NOERR      ;
5F      11 000B8   BRB     10$
52      D5 000BA 8$: TSTL   FNCTST_COMPLETE      ; 0199
66      12 000BC   BNEQ   11$
01      53 D1 000BE   CMPL   FNCTST_ERROR, #1      ; 0202
19      12 000C1   BNEQ   9$
00000000G EF 9F 000C3   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0207
01      DD 000C9   PUSHL   #1
1A      DD 000CB   PUSHL   #26
00000000G FF      03 FB 000CD   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 000D4   PUSHAB MEN$GT_FNCTST_INCMPL_ERR      ;
93      11 000DA   BRB     5$
53      D5 000DC 9$: TSTL   FNCTST_ERROR      ; 0212
44      12 000DE   BNEQ   11$
00000000G EF 9F 000E0   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0217
01      DD 000E6   PUSHL   #1
1A      DD 000E8   PUSHL   #26
00000000G FF      03 FB 000EA   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 000F1   PUSHAB MEN$GT_FNCTST_INCMPL_NOERR      ;
01      DD 000F7   PUSHL   #1
1A      DD 000F9   PUSHL   #26
00000000G FF      03 FB 000FB   CALLS  #3, @CRD$PRINT      ;
00000000G EF 9F 00102   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0218
  
```

ZZ-ENSAB-2.0 MEN\$FncTst_CmplErr_Status Routine L 3 19-Sep-1985 Fiche 8 Frame L3 Sequence 1479
 MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Page 14
 01-04 MEN\$FncTst_CmplErr_Status Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (10)

```

    01 DD 00108    PUSHL    #1    ;
    1A DD 0010A    PUSHL    #26    ;
00000000G FF    03 FB 0010C    CALLS    #3, @CRD$PRINT    ;
00000000G EF    9F 00113    PUSHAB    MEN$GT_ASSISTANCE_MSG    ;
    01 DD 00119 10$:    PUSHL    #1    ;
    1A DD 0011B    PUSHL    #26    ;
00000000G FF    03 FB 0011D    CALLS    #3, @CRD$PRINT    ;
00000000G EF    94 00124 11$:    CLRB    MEN$GB_TEST_IN_PROGRESS    ; 0222
04    A6 D5 0012A    TSTL    4(TSTQ_TBL_PTR)    ; 0230
    07 13 0012D    BEQL    12$    ;
00000000V EF    00 FB 0012F    CALLS    #0, MEN$MENU_SUMMARY    ; 0232
    03 DD 00136 12$:    PUSHL    #3    ; 0238
00000000G EF    01 FB 00138    CALLS    #1, CRD$SCREEN_PAUSE    ;
    50    01 D0 0013F    MOVL    #1, R0    ; 0241
    04 00142    RET    ; 0242
  
```

; Routine Size: 323 bytes, Routine Base: CODE + 0000

Z
M
0

ZZ-ENSAB-2.0 MEN\$FncTst_TestStrt_Text Routine M 3
MENTST CRD MENU - Test Routines 19-Sep-1985 Fiche 8 Frame M3 Sequence 1480
01-04 MEN\$FncTst_TestStrt_Text Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (11)

```
: 0243 1 %SBTTL 'MEN$FncTst_TestStrt_Text Routine'
: 0244 1
: 0245 1 GLOBAL ROUTINE MEN$FncTst_TestStrt_Text (I_DDB, I_HST) =
: 0246 1
: 0247 1 !*
: 0248 1 ! FUNCTIONAL DESCRIPTION:
: 0249 1 !
: 0250 1 !     Print 'test start text' message for CRD MENU TEST
: 0251 1 !
: 0252 1 ! INPUT PARAMETERS
: 0253 1 !
: 0254 1 !     I_DDB   Address of DDB
: 0255 1 !
: 0256 1 !     I_HST   Address of Hardware Support Table
: 0257 1 !
: 0258 1 ! OUTPUT PARAMETERS
: 0259 1 !
: 0260 1 ! IMPLICIT INPUTS
: 0261 1 !
: 0262 1 ! EXPLICIT OUTPUTS
: 0263 1 !
: 0264 1 !
: 0265 1 ! SIDE EFFECTS
: 0266 1 !
: 0267 1 !
: 0268 1 ! COMPLETION CODES
: 0269 1 !
: 0270 1 !     CRD$K_Success
: 0271 1 ! --
```

ZZ-ENSAB-2.0 MEN\$FncTst_TestStrt_Text Routine

MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Page 16

01-04 MEN\$FncTst_TestStrt_Text Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32:1 (12)

```

; 0272 2 BEGIN
; 0273 2   LOCAL
; 0274 2   TstCla_Name_Ptr;
; 0275 2
; 0276 2   REGISTER
; 0277 2   Name_Ptr : REF VECTOR [, BYTE],
; 0278 2   DDB_Ptr  : REF Device_Data_Block_Structure,
; 0279 2   HST_Ptr  : REF VECTOR [, LONG],
; 0280 2   SupBlk_Ptr : REF $MEN_SupBlk_ATTR,
; 0281 2   PTable_Ptr : REF $DS_HPO_DECL (),
; 0282 2
; 0283 2   HdwName_Ptr,
; 0284 2   Dev_Name,
; 0285 2   Runtime_Ptr;
; 0286 2
; 0287 2   BIND
; 0288 2   DDB = .I_DDB,
; 0289 2   HST = .I_HST;
; 0290 2
; 0291 2   DDB_Ptr = DDB; ! Point to the DDB
; 0292 2   HST_Ptr = HST; ! Point to Hardware Support Table
; 0293 2
; 0294 2   !+
; 0295 2   ! Set up for printing Hardware Device Name
; 0296 2   !-
; 0297 2
; 0298 2   PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
; 0299 2   ! Point to the P-Table
; 0300 2   HdwName_Ptr = PTable_Ptr [HP$T_TYPE];
; 0301 2   ! Point to the Hardware device name ASCII
; 0302 2
; 0303 2   !+
; 0304 2   ! Set up for printing Test Class Name. Use name specified as 'test start text'
; 0305 2   ! in HST, otherwise use the device test class name specified in support block.
; 0306 2   !-
; 0307 2
; 0308 2   Name_Ptr = .HST_Ptr [CRD$K_Test_Start_Text];
; 0309 2
; 0310 3   IF ((.Name_Ptr EQL 0) OR (.Name_Ptr [0] EQL 0))
; 0311 2   THEN
; 0312 3   BEGIN ! 0 pointer or Null ASCII
; 0313 3       SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr];
; 0314 3       ! Point to the support block
; 0315 3       MEN$Get_TstCla_Name (SupBlk_Ptr [SupBlk$B_Test_Class], TstCla_Name_Ptr);
; 0316 3       ! Get the test class name ASCII
; 0317 3   END
; 0318 2   ELSE
; 0319 2   TstCla_Name_Ptr = .Name_Ptr;
; 0320 2
; 0321 2   !+
; 0322 2   ! Set up for printing Generic Device Name
; 0323 2   !-
; 0324 2
; 0325 2   Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
; 0326 2   ! Generic device name ASCII

```



```

: 0327 2
: 0328 2 !+
: 0329 2 ! Set up for printing Diagnostic Runtime
: 0330 2 !-
: 0331 2
: 0332 2 RunTime_Ptr = .HST_Ptr [CRD$K_RunTime];
: 0333 2 ! Point to Run Time ASCII
: 0334 2
: 0335 2 !+
: 0336 2 ! Print the test start text
: 0337 2 !-
: 0338 2
: P 0339 2 $CRD_Print (MEN$GT_FncTst_TestStrt_Text,
: P 0340 2 .Hdwr_Name_Ptr, ! Hardware Name ASCII
: P 0341 2 .TstCla_Name_Ptr, ! Test Class Name ASCII
: P 0342 2 .Dev_Name, ! Generic Device name ASCII
: P 0343 2 .Runtime_Ptr ! Run time ASCII
: 0344 2 );
: 0345 2 RETURN (CRD$K_Success);
: 0346 1 END;
  
```

```

.EXTRN MEN$GET_TSTCLA_NAME
.EXTRN CRD$GET_DEVICE_NAME
.EXTRN MEN$GT_FNCTST_TESTSTRT_TEXT
  
```

```

001C 00000 .ENTRY MEN$FNCTST_TESTSTRT_TEXT, Save R2,R3,R4 ; 0245
5E 04 C2 00002 SUBL2 #4, SP ;
51 04 AC 7D 00005 MOVQ I_DDB, DDB_PTR ; 0291
53 08 A1 D0 00009 MOVL 8(DDB_PTR), PTABLE_PTR ; 0298
54 26 A3 9E 0000D MOVAB 38(R3), HDWR_NAME_PTR ; 0300
50 14 A2 D0 00011 MOVL 20(HST_PTR), NAME_PTR ; 0308
04 13 00015 BEQL 1$ ; 0310
60 95 00017 TSTB (NAME_PTR) ;
12 12 00019 BNEQ 2$ ;
50 20 A1 D0 0001B 1$: MOVL 32(DDB_PTR), SUPBLK_PTR ; 0313
5E DD 0001F PUSHL SP ; 0315
11 A0 9F 00021 PUSHAB 17(SUPBLK_PTR) ;
00000000G EF 02 FB 00024 CALLS #2, MEN$GET_TSTCLA_NAME ;
03 11 0002B BRB 3$ ; 0310
6E 50 D0 0002D 2$: MOVL NAME_PTR, TSTCLA_NAME_PTR ; 0319
53 DD 00030 3$: PUSHL PTABLE_PTR ; 0325
00000000G EF 01 FB 00032 CALLS #1, CRD$GET_DEVICE_NAME ;
51 18 A2 D0 00039 MOVL 24(HST_PTR), RUNTIME_PTR ; 0332
03 BB 0003D PUSHR #^M<R0,R1> ; 0344
08 AE DD 0003F PUSHL TSTCLA_NAME_PTR ;
54 DD 00042 PUSHL HDWR_NAME_PTR ;
00000000G EF 9F 00044 PUSHAB MEN$GT_FNCTST_TESTSTRT_TEXT ;
01 DD 0004A PUSHL #1 ;
1A DD 0004C PUSHL #26 ;
00000000G FF 07 FB 0004E CALLS #7, @CRD$PRINT ;
50 01 D0 00055 MOVL #1, R0 ; 0345
04 00058 RET ; 0346
  
```

ZZ-ENSAB-2.0 MEN\$FncTst_TestStrt_Text Routine C 4
MENTST CRD MENU - Test Routines 19-Sep-1985 19-Sep-1985 Fiche 8 Frame C4 Sequence 1483
01-04 MEN\$FncTst_TestStrt_Text Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 Page 18 (12)
; Routine Size: 89 bytes, Routine Base: CODE + 0143

```

: 0347 1 xSBTTL 'MEN$Print_Failed_Hdwr Routine'
: 0348 1
: 0349 1 GLOBAL ROUTINE MEN$Print_Failed_Hdwr =
: 0350 1
: 0351 1 !**
: 0352 1 ! FUNCTIONAL DESCRIPTION:
: 0353 1 !
: 0354 1 !   Print ASCII hardware generic device names of all DDB's in the Test Queue
: 0355 1 !   which indicate that the hardware has failed testing. A hardware device is
: 0356 1 !   considered failed if the DDB's status bit DDB$V_Status_Device_Bad
: 0357 1 !   is true indicating that CRD MENU has printed a ** FAILED ** when
: 0358 1 !   testing the device.
: 0359 1 !
: 0360 1 !   If no DDB's are indicated as failed then no typeout is received.
: 0361 1 !
: 0362 1 ! INPUT PARAMETERS
: 0363 1 !
: 0364 1 ! OUTPUT PARAMETERS
: 0365 1 !
: 0366 1 ! IMPLICIT INPUTS
: 0367 1 !
: 0368 1 !   Test Queue table pointed to by MEN$GA_Test_Queue.
: 0369 1 !
: 0370 1 ! EXPLICIT OUTPUTS
: 0371 1 !
: 0372 1 !   ASCII text printout if at least one device is found to be bad:
: 0373 1 !
: 0374 1 !   FORMAT:
: 0375 1 !
: 0376 1 !   FAILED HARDWARE: Device name 1, Device name 2, ....., Device name N
: 0377 1 !
: 0378 1 !
: 0379 1 ! SIDE EFFECTS
: 0380 1 !
: 0381 1 !
: 0382 1 ! COMPLETION CODES
: 0383 1 !
: 0384 1 !   CRD$K_Success
: 0385 1 ! --

```

```

: 0386 2 BEGIN
: 0387 2   LOCAL
: 0388 2   TstQ_Tbl_Index,
: 0389 2   TstQ_Tbl_Entries,
: 0390 2   TstQ_Tbl_Ptr   : REF VECTOR [, LONG];
: 0391 2
: 0392 2   REGISTER
: 0393 2   Failed_Hdwr_Found : INITIAL (False), ! Assume no failed hardware was found
: 0394 2
: 0395 2   Char_Ptr,
: 0396 2   Numb_Bad_Devices : INITIAL (0),
: 0397 2
: 0398 2   DDB_Ptr   : REF Device_Data_Block_Structure,
: 0399 2   PTable_Ptr : REF $DS_HPO_DECL (),
: 0400 2   DDB_Status;
: 0401 2
: 0402 2   BIND
: 0403 2   Comma_Space = $ASCIC (' ', ' ') : VECTOR [, BYTE];
: 0404 2
: 0405 2   !+
: 0406 2   ! Initialize Hardware Device Name buffer: point to the first character position.
: 0407 2   !-
: 0408 2
: 0409 2   Char_Ptr = DevNam_String_Buf + 1;
: 0410 2
: 0411 2   !+
: 0412 2   ! Set up for indexing into Test Queue Table
: 0413 2   !-
: 0414 2
: 0415 2   TstQ_Tbl_Index   = 0;
: 0416 2   TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 0417 2   TstQ_Tbl_Ptr     = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 0418 2
: 0419 2   !+
: 0420 2   ! Get a DDB pointer from the Test Queue Table and determine if the DDB's device failed
: 0421 2   !-
: 0422 2
: 0423 2   WHILE ((.TstQ_Tbl_Index LSS .TstQ_Tbl_Entries) AND ((DDB_Ptr = .TstQ_Tbl_Ptr [.TstQ_Tbl_Index]) NEQ 0)) DO
: 0424 3   BEGIN
: 0425 3   DDB_Status = .DDB_Ptr [CRD$K_DDB_Status];
: 0426 3
: 0427 3   IF (.CRD$GB_CRD_Debug) THEN
: 0428 4   BEGIN
: 0429 4   $CRD_Print ($ASCIC ('!/MEN$Print_Failed_Hdwr: DDB_Ptr = !XL(X), DDB_Status = !XL(X)!/' ),
: 0430 4   .DDB_Ptr, .DDB_Status);
: 0431 3   END;
: 0432 3
: 0433 4   IF (.DDB_Status < DDB$V_Status_Device_Bad)
: 0434 3   THEN
: 0435 4   BEGIN
: 0436 4   LOCAL
: 0437 4   Device_Name : REF VECTOR [, BYTE];
: 0438 4
: 0439 4   Numb_Bad_Devices = .Numb_Bad_Devices + 1;
: 0440 4

```

```

; 0441 4 !+
; 0442 4 ! If DDB's device is indicated failed then load Failed Hardware
; 0443 4 ! buffer with the hardware generic device name
; 0444 4 !-
; 0445 4
; 0446 4 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
; 0447 4 ! Point to the P-Table
; 0448 4
; 0449 4 Device_Name = CRD$Get_Device_Name (.PTable_Ptr);
; 0450 4 ! Get a pointer to the ASCII device name
; 0451 4
; 0452 4 IF (.Numb_Bad_Devices GTR 1) THEN
; 0453 4 Char_Ptr = CH$MOVE (.Comma_Space [0], CH$PTR (Comma_Space [1]), .Char_Ptr);
; 0454 4 ! Move in a ', ' to separate the entries
; 0455 4
; 0456 4 Char_Ptr = CH$MOVE (.Device_Name [0], CH$PTR (Device_Name [1]), .Char_Ptr);
; 0457 4 ! Move in the device name
; 0458 4
; 0459 4 Failed_Hdwr_Found = True;
; 0460 4 ! Indicate at least one failed device was found
; 0461 3 END;
; 0462 3 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
; 0463 2 END;
; 0464 2
; 0465 2 !+
; 0466 2 ! If at least one failed device was found then print text
; 0467 2 !-
; 0468 2
; 0469 3 IF (.Failed_Hdwr_Found)
; 0470 2 THEN
; 0471 3 BEGIN
; 0472 3 DevNam_String_Buf [0] = CH$DIFF (.Char_Ptr, CH$PTR (DevNam_String_Buf + 1));
; 0473 3 ! Get string size in bytes
; 0474 3
; 0475 3 $CRD_Message (New_Line, MEN$GT_Failed_Hdwr_Name, DevNam_String_Buf);
; 0476 2 END;
; 0477 2
; 0478 2 RETURN (CRD$K_Success);
; 0479 1 END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

61 20 2C 02 00034 P.AAC: .ASCII <2>\, \ ;
5F 46 5F 74 6E 69 72 50 24 4E 45 4D 2F 21 40 00037 P.AAD: .ASCII \a./MEN$Print_Failed Hdwr: DDB Ptr = !XL(\ ;
5F 42 44 44 20 3A 72 77 64 48 5F 64 65 6C 69 00046 ;
28 4C 58 21 20 3D 20 72 74 50 00055 ;
20 73 75 74 61 74 53 5F 42 44 44 20 2C 29 58 0005F .ASCII \X), DDB_Status = XL(X) /\ ;
2F 21 29 58 28 4C 58 21 20 3D 0006E ;

```

COMMA_SPACE= P.AAC
 .EXTRN MEN\$GT_FAILED_HDWR_NAME

.PSECT CODE,NOWRT, SHR, PIC,2

```

    OFFC 00000 .ENTRY MEN$PRINT_FAILED_HDWR, Save R2,R3,R4,R5,R6,-; 0349
    R7,R8,R9,R10,R11
    56 7C 00002 CLRQ FAILED_HDWR_FOUND ; 0386
    52 00000000' EF 9E 00004 MOVAB DEVNAM_STRING_BUF+1, CHAR_PTR ; 0409
    7E D4 0000B CLRL TSTQ_TBL_INDEX ; 0415
    00000000G EF DD 0000D PUSHL MEN$GA_TEST_QUEUE ; 0416
    00000000G EF DD 00013 PUSHL MEN$GA_TEST_QUEUE+4 ; 0417
    5E 11 00019 BRB 5$ ; 0423
    5A 14 A8 D0 0001B 1$: MOVL 20(DDB_PTR), DDB_STATUS ; 0425
    15 00000000G EF E9 0001F BLBC CRD$GB_CRD_DEBUG, 2$ ; 0427
    0500 8F 8B 00026 PUSHR #M(R8,R10) ; 0430
    00000000' EF 9F 0002A PUSHAB P.AAD ;
    01 DD 00030 PUSHL #1 ;
    1A DD 00032 PUSHL #26 ;
    00000000G FF 05 FB 00034 CALLS #5, @CRD$PRINT ;
    37 5A 04 E1 0003B 2$: BBC #4, DDB_STATUS, 4$ ; 0433
    57 D6 0003F INCL NUMB_BAD_DEVICES ; 0439
    59 08 A8 D0 00041 MOVL 8(DDB_PTR), PTABLE_PTR ; 0446
    59 DD 00045 PUSHL PTABLE_PTR ; 0449
    00000000G EF 01 FB 00047 CALLS #1, CRD$GET_DEVICE_NAME ;
    5B 50 D0 0004E MOVL R0, DEVICE_NAME ;
    01 57 D1 00051 CMPL NUMB_BAD_DEVICES, #1 ; 0452
    12 15 00054 BLEQ 3$ ;
    50 00000000' EF 9A 00056 MOVZBL COMMA_SPACE, R0 ; 0453
    62 00000000' EF 50 28 0005D MOVC3 R0, COMMA_SPACE+1, (CHAR_PTR) ;
    52 53 D0 00065 MOVL R3, CHAR_PTR ;
    50 6B 9A 00068 3$: MOVZBL (DEVICE_NAME), R0 ; 0456
    62 01 AB 50 28 0006B MOVC3 R0, 1(DEVICE_NAME), (CHAR_PTR) ;
    52 53 D0 00070 MOVL R3, CHAR_PTR ;
    56 01 D0 00073 MOVL #1, FAILED_HDWR_FOUND ; 0459
    08 AE D6 00076 4$: INCL TSTQ_TBL_INDEX ; 0462
    04 AE 08 AE D1 00079 5$: CMPL TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES ; 0423
    0B 18 0007E BGEQ 6$ ;
    50 08 AE D0 00080 MOVL TSTQ_TBL_INDEX, R0 ;
    58 00 BE40 D0 00084 MOVL @TSTQ_TBL_PTR(R0), DDB_PTR ;
    90 12 00089 BNEQ 1$ ;
    37 56 E9 0008B 6$: BLBC FAILED_HDWR_FOUND, 7$ ; 0469
    50 00000000' EF 9E 0008E MOVAB DEVNAM_STRING_BUF+1, R0 ; 0472
    00000000' EF 52 50 83 00095 SUBB3 R0, CHAR_PTR, DEVNAM_STRING_BUF ;
    00000000G EF 9F 0009D PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0475
    01 DD 000A3 PUSHL #1 ;
    1A DD 000A5 PUSHL #26 ;
    00000000G FF 03 FB 000A7 CALLS #3, @CRD$PRINT ;
    00000000' EF 9F 000AE PUSHAB DEVNAM_STRING_BUF ;
    00000000G EF 9F 000B4 PUSHAB MEN$GT_FAILED_HDWR_NAME ;
    01 DD 000BA PUSHL #1 ;
    1A DD 000BC PUSHL #26 ;
    00000000G FF 04 FB 000BE CALLS #4, @CRD$PRINT ;
    50 01 D0 000C5 7$: MOVL #1, R0 ; 0478
    04 000C8 RET ; 0479
  
```

; Routine Size: 201 bytes, Routine Base: CODE + 019C

```

: 0480 1 xSBTTL 'MEN$Print_Runtime_Total Routine'
: 0481 1
: 0482 1 GLOBAL ROUTINE MEN$Print_Runtime_Total =
: 0483 1
: 0484 1 !*
: 0485 1 ! FUNCTIONAL DESCRIPTION:
: 0486 1 !
: 0487 1 !   Prints an ASCII text message of the total test time for the
: 0488 1 !   hardware devices represented in the Test Queue Table.
: 0489 1 !
: 0490 1 ! INPUT PARAMETERS
: 0491 1 !
: 0492 1 ! OUTPUT PARAMETERS
: 0493 1 !
: 0494 1 ! IMPLICIT INPUTS
: 0495 1 !
: 0496 1 !   Test Queue table pointed to by MEN$GA_Test_Queue.
: 0497 1 !
: 0498 1 !   The test time used for each device must be an ASCII representation
: 0499 1 !   of the diagnostic's test time in the following format:
: 0500 1 !
: 0501 1 ! MM:SS
: 0502 1 !
: 0503 1 !   where MM=diagnostic runtime minutes ASCII numeric representation
: 0504 1 !   SS=diagnostic runtime seconds in ASCII numeric representation
: 0505 1 !
: 0506 1 ! EXPLICIT OUTPUTS
: 0507 1 !
: 0508 1 !   FORMAT:
: 0509 1 !
: 0510 1 ! <CRLF><CRLF><Tab><Tab>RUN TIME = MM:SS MINUTES
: 0511 1 !
: 0512 1 !   where MM = Total diagnostic runtime minutes ASCII numeric representation
: 0513 1 !   SS = Total diagnostic runtime seconds numeric representation
: 0514 1 !
: 0515 1 ! SIDE EFFECTS
: 0516 1 !
: 0517 1 !
: 0518 1 ! COMPLETION CODES
: 0519 1 !
: 0520 1 !   CRD$K_Success
: 0521 1 ! --

```

```

: 0522 2 BEGIN
: 0523 2   LOCAL
: 0524 2   Runtime_Minutes,
: 0525 2   Runtime_Seconds;
: 0526 2
: 0527 2   REGISTER
: 0528 2   Second_Remaining,
: 0529 2   Minute_Total : INITIAL (0),
: 0530 2   Second_Total : INITIAL (0),
: 0531 2   TstQ_Tbl_Index,
: 0532 2   TstQ_Tbl_Entries,
: 0533 2   TstQ_Tbl_Ptr : REF VECTOR [, LONG],
: 0534 2   HST_No,
: 0535 2   HST_Index,
: 0536 2   Runtime_Ptr,
: 0537 2   DDB_Ptr : REF Device_Data_Block_Structure,
: 0538 2   PTable_Ptr : REF $DS_HPO_DECL (),
: 0539 2   HST_Ptr : REF VECTOR [, LONG];
: 0540 2
: 0541 2   !+
: 0542 2   ! Set up for indexing into Test Queue Table
: 0543 2   !-
: 0544 2
: 0545 2   TstQ_Tbl_Index = 0;
: 0546 2   TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 0547 2   TstQ_Tbl_Ptr = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 0548 2
: 0549 2   !+
: 0550 2   ! Get each DDB pointer from the Test Queue Table
: 0551 2   !-
: 0552 2
: 0553 2   WHILE ((.TstQ_Tbl_Index LSS .TstQ_Tbl_Entries) AND ((DDB_Ptr = .TstQ_Tbl_Ptr [.TstQ_Tbl_Index]) NEQ 0)) DO
: 0554 3   BEGIN
: 0555 3   !+
: 0556 3   ! If Hardware Support table exists then get test times
: 0557 3   !-
: 0558 3
: 0559 4   IF ((HST_Ptr = .DDB_Ptr [CRD$K_DDB_Menu_Support_Entry]) NEQ 0)
: 0560 3   THEN
: 0561 4     BEGIN
: 0562 4       !
: 0563 4       ! Setup for indexing thru all concatenated hardware support
: 0564 4       ! tables
: 0565 4       !
: 0566 4
: 0567 4       HST_No = .DDB_Ptr [CRD$K_DDB_Numb_Support_Tables];
: 0568 4       ! Get number of concatenated hardware support tables
: 0569 4       HST_Index = - 1;
: 0570 4
: 0571 4       WHILE ((HST_Index = .HST_Index + 1) LSS .HST_No) DO
: 0572 5       BEGIN
: 0573 5       !+
: 0574 5       ! Accumulate test time from all HST's
: 0575 5       !-
: 0576 5
  
```



```

: 0577 5 Runtime_Minutes = 0;
: 0578 5 Runtime_Seconds = 0;
: 0579 5 Runtime_Ptr = .HST_Ptr [CRD$K_Runtime];
: 0580 5 ! Point to diagnostic Runtime ASCII
: 0581 5
: 0582 5 MENS$CVT_Time_ASC_D (.Runtime_Ptr, Runtime_Minutes, Runtime_Seconds);
: 0583 5 ! Get the decimal equivalent of the ASCII runtime
: 0584 5
: 0585 5 Minute_Total = .Minute_Total + .Runtime_Minutes;
: 0586 5 ! Accumulate minutes total
: 0587 5 Second_Total = .Second_Total + .Runtime_Seconds;
: 0588 5 ! Accumulate seconds total
: 0589 5 HST_Ptr = .HST_Ptr + (CRD$K_Last_Entry * 4);
: 0590 5 ! Next hardware support table
: 0591 4 END; ! End All HST's
: 0592 3 END; ! HST exists
: 0593 3
: 0594 3 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
: 0595 3 ! next entry
: 0596 2 END; ! All Test Queue Table Entries
: 0597 2
: 0598 2 !+
: 0599 2 ! Calculate total minutes.
: 0600 2 !-
: 0601 2
: 0602 2 Minute_Total = .Minute_Total + (.Second_Total / 60);
: 0603 2
: 0604 2 !+
: 0605 2 ! Calculate Remaining Seconds
: 0606 2 !-
: 0607 2
: 0608 2 Second_Remaining = .Second_Total - ((.Second_Total / 60) * 60);
: 0609 2
: 0610 2 !+
: 0611 2 ! Print total runtime minutes:seconds
: 0612 2 !-
: 0613 2
: 0614 2 $CRD_Print (MENS$GT_Runtime_Total, .Minute_Total, .Second_Remaining);
: 0615 2
: 0616 2 RETURN (CRD$K_Success);
: 0617 1 END;

```

.EXTRN MENS\$GT_RUNTIME_TOTAL

```

OFFC 00000 .ENTRY MENS$PRINT_RUNTIME_TOTAL, Save R2,R3,R4,R5,- ; 0482
R6,R7,R8,R9,R10,R11
5E 08 C2 00002 SUBL2 #8, SP ;
52 7C 00005 CLRQ MINUTE_TOTAL ; 0522
54 D4 00007 CLRL TSTQ_TBL_INDEX ; 0545
55 00000000G EF 7D 00009 MOVQ MENS$GA_TEST_QUEUE, TSTQ_TBL_ENTRIES ; 0546
36 11 00010 BRB 5$ ; 0553
5B 10 AA D0 00012 1$: MOVL 16(DDb_PTR), HST_PTR ; 0559
2E 13 00016 BEQL 4$ ;

```

ZZ-ENSAB-2.0 MEN\$Print_Runtime_Total Routine K 4
 MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame K4
 01-04 MEN\$Print_Runtime_Total Routine 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (16)

Sequence 1491

```

57 18 AA D0 00018 MOVL 24(DDB_PTR), HST_NO ; 0567
58 01 CE 0001C MNEGL #1, HST_INDEX ; 0569
1E 11 0001F BRB 3$ ; 0571
6E 7C 00021 2$: CLRQ RUNTIME_SECONDS ; 0578
59 18 AB D0 00023 MOVL 24(HST_PTR), RUNTIME_PTR ; 0579
5E DD 00027 PUSHL SP ; 0582
08 AE 9F 00029 PUSHAB RUNTIME_MINUTES ;
59 DD 0002C PUSHL RUNTIME_PTR ;
00000000V EF 03 FB 0002E CALLS #3, MEN$CVT_TIME_ASC_D ;
52 04 AE C0 00035 ADDL2 RUNTIME_MINUTES, MINUTE_TOTAL ; 0585
53 6E C0 00039 ADDL2 RUNTIME_SECONDS, SECOND_TOTAL ; 0587
5B 20 C0 0003C ADDL2 #32, HST_PTR ; 0589
58 D6 0003F 3$: INCL HST_INDEX ; 0571
57 58 D1 00041 CMPL HST_INDEX, HST_NO ;
DB 19 00044 BLSS 2$ ;
54 D6 00046 4$: INCL TSTQ_TBL_INDEX ; 0594
55 54 D1 00048 5$: CMPL TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES ; 0553
06 18 0004B BGEQ 6$ ;
5A 6644 D0 0004D MOVL (TSTQ_TBL_PTR)[TSTQ_TBL_INDEX], DDB_PTR ;
BF 12 00051 BNEQ 1$ ;
50 53 3C C7 00053 6$: DIVL3 #60, SECOND_TOTAL, R0 ; 0602
52 50 C0 00057 ADDL2 R0, MINUTE_TOTAL ;
50 3C C4 0005A MULL2 #60, R0 ; 0608
50 53 50 C3 0005D SUBL3 R0, SECOND_TOTAL, SECOND_REMAINING ;
50 DD 00061 PUSHL SECOND_REMAINING ; 0614
52 DD 00063 PUSHL MINUTE_TOTAL ;
00000000G EF 9F 00065 PUSHAB MEN$GT_RUNTIME_TOTAL ;
01 DD 0006B PUSHL #1 ;
1A DD 0006D PUSHL #26 ;
00000000G FF 05 FB 0006F CALLS #5, @CRD$PRINT ;
50 01 D0 00076 MOVL #1, R0 ; 0616
04 00079 RET ; 0617

```

; Routine Size: 122 bytes, Routine Base: CODE + 0265

```

; 0618 1 $SBTTL 'MEN$CVT_Time_ASC_D Routine'
; 0619 1
; 0620 1 GLOBAL ROUTINE MEN$CVT_Time_ASC_D (I_Time, I_Minutes, I_Seconds) =
; 0621 1
; 0622 1 !**
; 0623 1 ! FUNCTIONAL DESCRIPTION:
; 0624 1 !
; 0625 1 !     Converts ASCII representation of minutes and seconds to decimal.
; 0626 1 !
; 0627 1 ! INPUT PARAMETERS
; 0628 1 !
; 0629 1 !     I_TIME   Address of time ASCII in following format:
; 0630 1 !
; 0631 1 !     mm:ss
; 0632 1 !
; 0633 1 !           where mm=time minutes in ASCII numeric
; 0634 1 !           ss=time seconds in ASCII numeric
; 0635 1 !
; 0636 1 ! OUTPUT PARAMETERS
; 0637 1 !
; 0638 1 !     I_MINUTES Address of longword to return decimal minutes
; 0639 1 !
; 0640 1 !     I_SECONDS Address of longword to return decimal seconds
; 0641 1 !
; 0642 1 ! IMPLICIT INPUTS
; 0643 1 !
; 0644 1 ! EXPLICIT OUTPUTS
; 0645 1 !
; 0646 1 ! SIDE EFFECTS
; 0647 1 !
; 0648 1 ! COMPLETION CODES
; 0649 1 !
; 0650 1 !     CRD$K_Success
; 0651 1 ! --

```

.....

```

001C 00000 .ENTRY MENS$CVT_TIME_ASC_D, Save R2,R3,R4 ; 0620
53 04 AC D0 00002 MOVL I TIME, TIME_PTR ; 0667
50 63 9A 00006 MOVZBL (TIME_PTR), R0 ; 0673

```

```
; Routine Size: 87 bytes,    Routine Base: CODE + 02DF
```

```
: 0699 1 xSBTTL 'MEN$Scan_Numeric_ASC_D Routine'
: 0700 1
: 0701 1 GLOBAL ROUTINE MEN$Scan_Numeric_ASC_D (I_Length, I_Pointer, I_RetVal) =
: 0702 1
: 0703 1 !**
: 0704 1 ! FUNCTIONAL DESCRIPTION:
: 0705 1 !
: 0706 1 !     Interface routine to VSD Scan_Numeric Routine. Converts ASCII representation
: 0707 1 !     of decimal number to decimal value specified. The reason for this routine is
: 0708 1 !     because the VDS routine does not preserve registers. This interface routine
: 0709 1 !     will guarantee that the calling routine registers 2-11 will be preserved.
: 0710 1 !
: 0711 1 ! INPUT PARAMETERS
: 0712 1 !
: 0713 1 !     I_Length  Size of ASCII  string
: 0714 1 !
: 0715 1 !     I_Pointer  Address of ASCII  string
: 0716 1 !
: 0717 1 ! OUTPUT PARAMETERS
: 0718 1 !
: 0719 1 !     I_RetVal  Address of longword to return value
: 0720 1 !
: 0721 1 ! IMPLICIT INPUTS
: 0722 1 !
: 0723 1 ! EXPLICIT OUTPUTS
: 0724 1 !
: 0725 1 ! SIDE EFFECTS
: 0726 1 !
: 0727 1 ! COMPLETION CODES
: 0728 1 !
: 0729 1 !     CRD$K_Success
: 0730 1 ! --
```

```

; 0731 2 BEGIN
; 0732 2   BIND ROUTINE
; 0733 2   Scan_Numeric = (.CRD$Scan$Numeric) : JSB_Scan_Numeric;
; 0734 2
; 0735 2   BIND
; 0736 2   Length = .I_Length,
; 0737 2   Pointer = .I_Pointer,
; 0738 2   RetVal = .I_RetVal;
; 0739 2
; 0740 2   Scan_Numeric (10, Length, Pointer ; RetVal);
; 0741 2
; 0742 2   RETURN (CRD$K_Success);
; 0743 1 END;

```

.EXTRN CRD\$SCAN\$NUMERIC

```

      OFFC 00000 .ENTRY MEN$SCAN_NUMERIC_ASC_D, Save R2,R3,R4,R5,- ; 0701
      R6,R7,R8,R9,R10,R11
      54 04 AC 7D 00002 MOVQ I_LENGTH, R4 ; 0740
      53 0A D0 00006 MOVL #10, R3 ;
      00000000G FF 16 00009 JSB aCRD$SCAN$NUMERIC ;
      0C BC 50 D0 0000F MOVL R0, aI_RETVAL ;
      50 01 D0 00013 MOVL #1, R0 ; 0742
      04 00016 RET ; 0743

```

; Routine Size: 23 bytes, Routine Base: CODE + 0336

```

: 0744 1 xSBTTL 'MEN$Preparation_Err_Text Routine'
: 0745 1
: 0746 1 GLOBAL ROUTINE MEN$Preparation_Err_text (User_Text_Ptr, DDB_Ptr) =
: 0747 1
: 0748 1 !*
: 0749 1 FUNCTIONAL DESCRIPTION:
: 0750 1
: 0751 1 Prints text associated with a Hardware Test Preparation error.
: 0752 1
: 0753 1 INPUT PARAMETERS
: 0754 1
: 0755 1 User_Text_Ptr: Address of ASCIC Text associated with hardware test
: 0756 1 preparation error. This address COULD be 0 though.      ![[01]]
: 0757 1
: 0758 1 DDB_Ptr: Address of DDB associated with hardware device
: 0759 1 from which a hardware preparation error has occurred
: 0760 1 OUTPUT PARAMETERS
: 0761 1
: 0762 1 IMPLICIT INPUTS
: 0763 1
: 0764 1 EXPLICIT OUTPUTS
: 0765 1
: 0766 1 Formatted ASCII printout at terminal with format:
: 0767 1
: 0768 1 <CR/LF><CR/LF>
: 0769 1 ** 'Text message pointed to by User_Text_Ptr' **
: 0770 1 <CR/LF>
: 0771 1 ** 'Generic Device Name' - INCORRECT HARDWARE TEST PREPARATION **
: 0772 1 <CR/LF>
: 0773 1
: 0774 1 SIDE EFFECTS
: 0775 1
: 0776 1 COMPLETION CODES
: 0777 1
: 0778 1 CRD$K_Success
: 0779 1 --
    
```



```

: 0780 2 BEGIN
: 0781 2 MAP
: 0782 2   User_Text_Ptr : REF VECTOR [, BYTE],
: 0783 2   DDB_Ptr       : REF Device_Data_Block_Structure;
: 0784 2
: 0785 2 REGISTER
: 0786 2   Device_Name_Ptr : REF VECTOR [, BYTE];
: 0787 2
: 0788 2   Device_Name_Ptr = CRD$Get_Device_Name (.DDB_Ptr [CRD$K_DDB_PTable_Entry]);
: 0789 2
: 0790 2   !*                ![[01]]
: 0791 2   ! Check first to see if there is an address given by the user for the error message. That is, ![[01]]
: 0792 2   ! is the MSGADR parameter equal to 0. If so, print a short message.                ![[01]]
: 0793 2   !-                ![[01]]
: 0794 2
: 0795 2   IF (.User_Text_Ptr EQL 0) THEN
: 0796 3     $CRD_Print (MEN$GT_Prep_Error_Text_No_User, .Device_Name_Ptr)
: 0797 3
: 0798 3
: 0799 3   !*                ![[01]]
: 0800 3   ! The user actually passed a valid address of a non-null string. Print it.        ![[01]]
: 0801 3   !-                ![[01]]
: 0802 3
: 0803 2 ELSE
: 0804 3 BEGIN
: 0805 3 MAP
: 0806 3   MEN$GT_Prep_Error_Text : VECTOR [, BYTE];
: 0807 3
: 0808 3 REGISTER
: 0809 3   Left,
: 0810 3   Right,
: 0811 3   Prep_Text_Len,
: 0812 3   User_Text_Len,
: 0813 3   Difference;
: 0814 3
: 0815 3 !   Prep_Text_Len = .Device_Name_Ptr [0] + MEN$K_Prep_Error_Text_Len;
: 0816 3 !   User_Text_Len = .User_Text_Ptr [0];
: 0817 3
: 0818 3 !   Difference = ABS (.User_Text_Len - .Prep_Text_Len);
: 0819 3
: 0820 3 !   Left  = (.Difference + 1) / 2;
: 0821 3 !   Right = .Difference - .Left;
: 0822 3   Left=1;                ![[02]]
: 0823 3   Right=1;              ![[02]]
: 0824 3
: 0825 3 !   IF (.User_Text_Len GTR .Prep_Text_Len) THEN
: 0826 3 !     $CRD_Print (MEN$GT_Prep_Error_Text,
: 0827 3 !       0,      User_Text_Ptr [0], 0,
: 0828 3 !       .Left, Device_Name_Ptr [0], .Right)
: 0829 3 !   ELSE
: P 0830 3     $CRD_Print (MEN$GT_Prep_Error_Text,
: P 0831 3       .Left, User_Text_Ptr [0], .Right,
: 0832 3       0,      Device_Name_Ptr [0], 0);
: 0833 2 END;
: 0834 2 RETURN (CRD$K_Success);

```

; 0835 1 END;

.EXTRN MEN\$GT_PREP_ERROR_TEXT_NO_USER
 .EXTRN MEN\$GT_PREP_ERROR_TEXT

```

0004 00000 .ENTRY MEN$PREPARATION_ERR_TEXT, Save R2 ; 0746
50 08 AC D0 00002 MOVL DDB_PTR, R0 ; 0788
08 A0 DD 00006 PUSHL 8(R0) ;
00000000G EF 01 FB 00009 CALLS #1, CRD$GET_DEVICE_NAME ;
52 50 D0 00010 MOVL R0, DEVICE_NAME_PTR ;
04 AC D5 00013 TSTL USER_TEXT_PTR ; 0795
15 12 00016 BNEQ 1$ ;
52 DD 00018 PUSHL DEVICE_NAME_PTR ; 0796
00000000G EF 9F 0001A PUSHAB MEN$GT_PREP_ERROR_TEXT_NO_USER ;
01 DD 00020 PUSHL #1 ;
1A DD 00022 PUSHL #26 ;
00000000G FF 04 FB 00024 CALLS #4, aCRD$PRINT ;
24 11 0002B BRB 2$ ;
50 01 D0 0002D 1$: MOVL #1, LEFT ; 0822
51 01 D0 00030 MOVL #1, RIGHT ; 0823
7E D4 00033 CLRL -(SP) ; 0832
52 DD 00035 PUSHL DEVICE_NAME_PTR ;
7E D4 00037 CLRL -(SP) ;
51 DD 00039 PUSHL RIGHT ;
04 AC DD 0003B PUSHL USER_TEXT_PTR ;
50 DD 0003E PUSHL LEFT ;
00000000G EF 9F 00040 PUSHAB MEN$GT_PREP_ERROR_TEXT ;
01 DD 00046 PUSHL #1 ;
1A DD 00048 PUSHL #26 ;
00000000G FF 09 FB 0004A CALLS #9, aCRD$PRINT ;
50 01 D0 00051 2$: MOVL #1, R0 ; 0834
04 00054 RET ; 0835
  
```

; Routine Size: 85 bytes, Routine Base: CODE + 034D

```

; 0836 1 xSBTTL 'MEN$Scratch_Media_Msg Routine'
; 0837 1
; 0838 1 GLOBAL ROUTINE MEN$Scratch_Media_Msg =
; 0839 1
; 0840 1 !+
; 0841 1 ! FUNCTIONAL DESCRIPTION:
; 0842 1 !
; 0843 1 ! Prints a warning message and a list of hardware names
; 0844 1 ! indicating that scratch media must be provided
; 0845 1 ! for the hardware selected for test.
; 0846 1 ! Only hardware whose test configuration block indicates that the hardware
; 0847 1 ! requires scratch media is considered for printout.
; 0848 1 !
; 0849 1 !
; 0850 1 ! INPUT PARAMETERS
; 0851 1 !
; 0852 1 ! OUTPUT PARAMETERS
; 0853 1 !
; 0854 1 ! IMPLICIT INPUTS
; 0855 1 !
; 0856 1 ! Test Queue table pointed to by MEN$GA_Test_Queue.
; 0857 1 !
; 0858 1 ! EXPLICIT OUTPUTS
; 0859 1 !
; 0860 1 ! ASCII text printout. A pause occurs and the operator is prompted
; 0861 1 ! to press carriage return to continue.
; 0862 1 !
; 0863 1 !
; 0864 1 ! SIDE EFFECTS
; 0865 1 !
; 0866 1 !
; 0867 1 ! COMPLETION CODES
; 0868 1 !
; 0869 1 ! CRD$K Success Printout occurred - at least one hardware device
; 0870 1 ! was found to require scratch media.
; 0871 1 !
; 0872 1 ! No printout occurred - no hardware was specified
; 0873 1 ! to need scratch media.
; 0874 1 !

```

```

: 0875 2 BEGIN
: 0876 2   LOCAL
: 0877 2   TstQ_Tbl_Index,
: 0878 2   TstQ_Tbl_Entries,
: 0879 2   TstQ_Tbl_Ptr : REF VECTOR [, LONG];
: 0880 2
: 0881 2   REGISTER
: 0882 2   Valid_Status,
: 0883 2   Hdw Found : INITIAL (False), ! Asume no hardware found
: 0884 2   Printed_Basic_Msg : INITIAL (False), ! Assume basic message not printed
: 0885 2   Hdw_Name_Ptr,
: 0886 2   Dev_Name,
: 0887 2
: 0888 2   DDB_Ptr : REF Device_Data_Block_Structure,
: 0889 2   PTable_Ptr : REF $DS_HPO_DECL (),
: 0890 2   SupBlk_Ptr : REF $MEN_SupBlk_Attr,
: 0891 2   TstCnfg_Ptr : REF $MEN_TstCnfg_ATTR;
: 0892 2
: 0893 2   BIND
: 0894 2   T_Prompt_Default = $ASCIC ('CRLF') : VECTOR [, BYTE];
: 0895 2
: 0896 2   !+
: 0897 2   ! Set up for indexing into Test Queue Table
: 0898 2   !-
: 0899 2
: 0900 2   TstQ_Tbl_Index = 0;
: 0901 2   TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 0902 2   TstQ_Tbl_Ptr = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 0903 2
: 0904 2   !+
: 0905 2   ! Get all Hardware Names from the DDB's in the Test Queue Table whose
: 0906 2   ! hardware test configuration block indicates that scratch media
: 0907 2   ! is required.
: 0908 2   !-
: 0909 2
: 0910 2   WHILE ((.TstQ_Tbl_Index LSS .TstQ_Tbl_Entries) AND ((DDB_Ptr = .TstQ_Tbl_Ptr [.TstQ_Tbl_Index]) NEQ 0)) DO
: 0911 3   BEGIN
: 0912 3   SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr];
: 0913 3   ! Get support block
: 0914 3   TstCnfg_Ptr = SupBlk_Ptr [SupBlk$B_StrtFrst_CnfgBlk];
: 0915 3   ! Get hardware configuration
: 0916 3
: 0917 3   !+
: 0918 3   ! If scratch media is required print the list of hardware
: 0919 3   !-
: 0920 3
: 0921 4   IF (.TstCnfg_Ptr [TstCnfg$V_Status_Scratch])
: 0922 3   THEN
: 0923 4   BEGIN
: 0924 4   !+
: 0925 4   ! Print the basic message only once
: 0926 4   !-
: 0927 4
: 0928 5   IF (NOT .Printed_Basic_Msg)
: 0929 4   THEN

```

```
: 0930 5 BEGIN
: 0931 5 $CRD_Print (MEN$GT_ScrMedia_Msg);
: 0932 5 Printed_Basic_Msg = True;
: 0933 5 Hdwr_Found = True;
: 0934 5 ! Indicate at least one hdwr found
: 0935 4 END;
: 0936 4
: 0937 4 !+
: 0938 4 ! Set up for printing Hardware Name
: 0939 4 !-
: 0940 4
: 0941 4 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 0942 4 ! Point to the P-Table
: 0943 4 Hdwr_Name_Ptr = PTable_Ptr [HP$T_TYPE];
: 0944 4 ! Point to the Hardware device name ASCII
: 0945 4
: 0946 4 !+
: 0947 4 ! Set up for printing Generic Device Name
: 0948 4 !-
: 0949 4
: 0950 4 Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
: 0951 4 ! Get the generic device name ASCII
: 0952 4
: 0953 4 !+
: 0954 4 ! Print the hardware text
: 0955 4 !-
: 0956 4
: P 0957 4 $CRD_Print (MEN$GT_ScrMedia_Hdwr,
: P 0958 4 .Hdwr_Name_Ptr, ! Hardware Name ASCII
: P 0959 4 .Dev_Name ! Generic Device Name ASCII
: 0960 4 );
: 0961 3 END; ! Printing list of hardware
: 0962 3
: 0963 3 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
: 0964 3 ! Advance to the next entry in the Test Queue Table
: 0965 2 END; ! Indexing into Test Queue Table
: 0966 2
: 0967 2 !+
: 0968 2 ! If no hardware name was found then return. If one was found, print the last line of the message.
: 0969 2 !-
: 0970 2
: 0971 3 IF (NOT .Hdwr_Found)
: 0972 2 THEN
: 0973 3 RETURN (CRD$K_Success)
: 0974 2 ELSE
: 0975 2 $CRD_Print (MEN$GT_ScrMedia_Hdwr_End);
: 0976 2
: 0977 2 !+
: 0978 2 ! Pause and prompt operator to press RETURN to continue
: 0979 2 !-
: 0980 2
: 0981 2 Valid_Status = False; ! Assume the worst
: 0982 2
: 0983 2 DO
: P 0984 3 IF ($MEN_ASKSTR (Msg_Adr = MEN$GT_ScrMedia_Prompt,
```

```

; P 0985 3   Buf_Adr = MEN$GT_OperInput_Buffer,
; 0986 3   Def_Adr = T_Prompt_Default))
; 0987 2   THEN
; 0988 2   !+
; 0989 2       ! Valid response to prompt is either <CR/LF> or ^C followed by the 'Resume' choice
; 0990 2       ! from the ^C Menu. In both cases the default is deposited in the operator buffer.
; 0991 2       !-
; 0992 2
; 0993 5       IF (NOT (Valid_Status = (CH$EQL (.MEN$GT_OperInput_Buffer [0], MEN$GT_OperInput_Buffer [1],
; 0994 3         .T_Prompt_Default [0], T_Prompt_Default [1]))))
; 0995 2       THEN
; 0996 3       $CRD_Message (New_Line, MEN$GT_InvOperInput)
; 0997 2       UNTIL (.Valid_Status); ! Repeat this till we get a valid answer
; 0998 2
; 0999 2       RETURN (CRD$K_Success);
; 1000 1   END;
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

46 4C 52 43 04 00078 P.AAE: .ASCII <4>\CRLF\ ;

```

T_PROMPT_DEFAULT= P.AAE
.EXTRN MEN$GT_SCRMEDIA_MSG
.EXTRN MEN$GT_SCRMEDIA_HDWR
.EXTRN MEN$GT_SCRMEDIA_HDWR_END
.EXTRN MEN$GT_SCRMEDIA_PROMPT
.EXTRN MEN$GT_OPERINPUT_BUFFER
.EXTRN DS$BREAK, DS$ASKSTR
.EXTRN MEN$GT_INVOPERINPUT
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

OFFC 00000 .ENTRY MEN$SCRATCH_MEDIA_MSG, Save R2,R3,R4,R5,R6,-; 0838
R7,R8,R9,R10,R11 ;
52 7C 00002 CLRQ HDWR_FOUND ; 0875
5A D4 00004 CLRL TSTQ_TBL_INDEX ; 0900
00000000G EF DD 00006 PUSHL MEN$GA_TEST_QUEUE ; 0901
5B 00000000G EF D0 0000C MOVL MEN$GA_TEST_QUEUE+4, TSTQ_TBL_PTR ; 0902
4F 11 00013 BRB 4$ ; 0910
58 20 A6 D0 00015 1$: MOVL 32(DDB_PTR), SUPBLK_PTR ; 0912
59 17 A8 9E 00019 MOVAB 23(R8), TSTCNFG_PTR ; 0914
41 02 A9 E9 0001D BLBC 2(TSTCNFG_PTR), 3$ ; 0921
17 53 E8 00021 BLBS PRINTED_BASIC_MSG, 2$ ; 0928
00000000G EF 9F 00024 PUSHAB MEN$GT_SCRMEDIA_MSG ; 0931
01 DD 0002A PUSHL #1 ;
1A DD 0002C PUSHL #26 ;
00000000G FF 03 FB 0002E CALLS #3, @CRD$PRINT ; 0932
53 01 D0 00035 MOVL #1, PRINTED_BASIC_MSG ; 0933
52 01 D0 00038 MOVL #1, HDWR_FOUND ; 0941
57 08 A6 D0 0003B 2$: MOVL 8(DDB_PTR), PTABLE_PTR ; 0943
54 26 A7 9E 0003F MOVAB 38(R7), HDWR_NAME_PTR ; 0950
57 DD 00043 PUSHL PTABLE_PTR ;
00000000G EF 01 FB 00045 CALLS #1, CRD$GET_DEVICE_NAME ;
  
```

```

    55      50 D0 0004C   MOVL    R0, DEV_NAME      ;
    30 BB 0004F   PUSHR    #AM<R4,R5>      ; 0960
00000000G EF 9F 00051   PUSHAB MEN$GT_SCRMEDIA_HDWR      ;
    01 DD 00057   PUSHL    #1      ;
    1A DD 00059   PUSHL    #26      ;
00000000G FF      05 FB 0005B   CALLS    #5, @CRD$PRINT      ;
    5A D6 00062 3$:   INCL    TSTQ_TBL_INDEX      ; 0963
    6E      5A D1 00064 4$:   CMPL    TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES      ; 0910
    06 18 00067   BGEQ     5$      ;
    56 6B4A D0 00069   MOVL    (TSTQ_TBL_PTR)[TSTQ_TBL_INDEX], DDB_PTR      ;
    A6 12 0006D   BNEQ     1$      ;
    03      52 E8 0006F 5$:   BLBS    HDWR_FOUND, 6$      ; 0971
    0098 31 00072   BRW      10$      ;
00000000G EF 9F 00075 6$:   PUSHAB MEN$GT_SCRMEDIA_HDWR_END      ; 0975
    01 DD 0007B   PUSHL    #1      ;
    1A DD 0007D   PUSHL    #26      ;
00000000G FF      03 FB 0007F   CALLS    #3, @CRD$PRINT      ;
    54 D4 00086   CLRL     VALID_STATUS      ; 0981
00000000G 9F      00 FB 00088 7$:   CALLS    #0, @DS$BREAK      ; 0986
    7E D4 0008F   CLRL     -(SP)      ;
00000000G EF 9F 00091   PUSHAB T_PROMPT_DEFAULT      ;
    7E D4 00097   CLRL     -(SP)      ;
    7E 48      8F 9A 00099   MOVZBL    #72, -(SP)      ;
00000000G EF 9F 0009D   PUSHAB MEN$GT_OPERINPUT_BUFFER      ;
00000000G EF 9F 000A3   PUSHAB MEN$GT_SCRMEDIA_PROMPT      ;
00000000G 9F      06 FB 000A9   CALLS    #6, @DS$ASKSTR      ;
    52      50 D0 000B0   MOVL    R0, STATUS      ;
00000000G 9F      00 FB 000B3   CALLS    #0, @DS$BREAK      ;
    4A      52 E9 000BA   BLBC     STATUS, 9$      ;
    51 00000000G EF 9A 000BD   MOVZBL    MEN$GT_OPERINPUT_BUFFER, R1      ; 0993
    50 00000000G EF 9A 000C4   MOVZBL    T_PROMPT_DEFAULT, R0      ; 0994
    55 D4 000CB   CLRL     R5      ;
50      00 00000000G EF      51 2D 000CD   CMPCS    R1, MEN$GT_OPERINPUT_BUFFER+1, #0, R0, -      ;
00000000G EF      000D6   T_PROMPT_DEFAULT+1      ;
    02 12 000DB   BNEQ     8$      ;
    55 D6 000DD   INCL     R5      ;
    54      55 D0 000DF 8$:   MOVL    R5, VALID_STATUS      ; 0993
    22      55 E8 000E2   BLBS    R5, 9$      ;
00000000G EF 9F 000E5   PUSHAB CRD$GT_NEW_LINE_MESSAGE      ; 0996
    01 DD 000EB   PUSHL    #1      ;
    1A DD 000ED   PUSHL    #26      ;
00000000G FF      03 FB 000EF   CALLS    #3, @CRD$PRINT      ;
00000000G EF 9F 000F6   PUSHAB MEN$GT_INVOPERINPUT      ;
    01 DD 000FC   PUSHL    #1      ;
    1A DD 000FE   PUSHL    #26      ;
00000000G FF      03 FB 00100   CALLS    #3, @CRD$PRINT      ;
    03      54 E8 00107 9$:   BLBS    VALID_STATUS, 10$      ; 0997
    FF7B 31 0010A   BRW      7$      ;
    50      01 D0 0010D 10$:   MOVL    #1, R0      ; 0999
    04 00110   RET      ; 1000
  
```

; Routine Size: 273 bytes, Routine Base: CODE + 03A2

```

: 1001 1 xSBTTL 'MEN$Menu_Summary'
: 1002 1
: 1003 1 GLOBAL ROUTINE MEN$Menu_Summary : NOVALUE =
: 1004 1
: 1005 1 !*+
: 1006 1 ! FUNCTIONAL DESCRIPTION:
: 1007 1 !
: 1008 1 ! Prints summary of devices tested after a
: 1009 1 ! Main Menu choice of E (Test all devices)
: 1010 1 ! or
: 1011 1 ! Main Menu choice of D (Test Menu of devices) followed by
: 1012 1 ! Test Menu choice of (Test all devices)
: 1013 1 !
: 1014 1 ! INPUT PARAMETERS
: 1015 1 !
: 1016 1 ! None
: 1017 1 !
: 1018 1 ! OUTPUT PARAMETERS
: 1019 1 !
: 1020 1 ! None
: 1021 1 !
: 1022 1 ! SIDE EFFECTS
: 1023 1 !
: 1024 1 ! None
: 1025 1 !
: 1026 1 ! COMPLETION CODES
: 1027 1 !
: 1028 1 ! None
: 1029 1 ! --

```



```

: 1030 2 BEGIN      ! Start of MEN$Menu_Summary routine
: 1031 2
: 1032 2 REGISTER
: 1033 2 TstQ_Tbl_Index,
: 1034 2 TstQ_Tbl_Entries,
: 1035 2 TstQ_Tbl_Ptr : REF VECTOR [, LONG],
: 1036 2 DDB_Ptr : REF Device_data_Block_Structure,
: 1037 2 SupBik_Ptr : REF $MEN_SupBik_ATTR,
: 1038 2 PTable_Ptr : REF $DS_HPO_DECL ();
: 1039 2
: 1040 2 LOCAL
: 1041 2 Some_Fail: INITIAL (False),
: 1042 2 Some_Pass: INITIAL (False),
: 1043 2 Some_Inc_Prep: INITIAL (False),
: 1044 2 !
: 1045 2 ! NOTE: there is no need for Some_Other because the menu does not
: 1046 2 ! consider devices that are not available.
: 1047 2 !
: 1048 2 Hdw_Name_Ptr,
: 1049 2 Dev_Name,
: 1050 2 Console_Char : $CRD_Termchar_ATTR,
: 1051 2 Screen_Counter;
: 1052 2
: 1053 2
: 1054 2 !*
: 1055 2 ! BEFORE DOING ANYTHING, CHECK THAT THE CONSOLE IS SOFT (i.e. VT100 or VT52)
: 1056 2 ! AND NOT HARD (i.e. LA34 etc.)
: 1057 2 !-
: 1058 3 IF ($DS_GETTERM (TERMCHAR = Console_Char))
: 1059 3 ! If SS$_NORMAL status on getting
: 1060 3 ! terminal characteristics
: 1061 2 THEN
: 1062 3 BEGIN
: 1063 3 !*
: 1064 3 ! If console is not a CRD supported soft console, then just RETURN.
: 1065 3 ! Otherwise, continue normally.
: 1066 3 !-
: 1067 4 IF ((.Console_Char [Termchar$B_Type] NEQ TT$_VT100) AND
: 1068 4 !*** (.Console_Char [Termchar$B_Type] NEQ TT$_VS125) AND      ![[04]
: 1069 5 (.Console_Char [Termchar$B_Type] NEQ TT$_VT52)
: 1070 4 )
: 1071 3 THEN
: 1072 3 RETURN;
: 1073 3 END
: 1074 2 ELSE
: 1075 2 $CRD_Print (CRD$GT_Internal_Error);
: 1076 2
: 1077 2
: 1078 2 !*
: 1079 2 ! Print the Summary Title
: 1080 2 !-
: 1081 2 $CRD_Print (CRD$GT_Summary_Title);
: 1082 2
: 1083 2
: 1084 2

```

```

: 1085 2      INCR I FROM 0 TO 3 DO
: 1086 3      BEGIN      ! Begin of INCR I
: 1087 3      !+
: 1088 3      ! Print the Subtitle of the Auto Test Summary
: 1089 3      !-
: 1090 3      SELECTONE .I OF
: 1091 3      SET
: 1092 3      [1]: IF (.Some_Fail) THEN $CRD_Print (CRD$GT_All_Failures);
: 1093 3      [2]: IF (.Some_Pass) THEN $CRD_Print (CRD$GT_All_Passes);
: 1094 3      [3]: IF (.Some_Inc_Prep) THEN $CRD_Print (CRD$GT_All_Inc_Hdwr_Prep);
: 1095 3      TES;
: 1096 3
: 1097 3      !+
: 1098 3      ! Set up for indexing into Test Queue Table
: 1099 3      !-
: 1100 3
: 1101 3      TstQ_Tbl_Index      = 0;
: 1102 3      TstQ_Tbl_Entries      = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 1103 3      TstQ_Tbl_Ptr      = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 1104 3
: 1105 3
: 1106 3      Screen_Counter = 0;      ! Init number of entries actually on
: 1107 3      ! the screen. Max numb is 2.
: 1108 3
: 1109 3      !+
: 1110 3      ! The following WHILE-DO acts on each DDB in the DDBs-queue.
: 1111 3      ! Get the DDB pointers from the Test Queue Table.
: 1112 3      !-
: 1113 3
: 1114 3      WHILE (.TstQ_Tbl_Index LSS .TstQ_Tbl_Entries) AND
: 1115 4      ((DDB_Ptr = .TstQ_Tbl_Ptr [.TstQ_Tbl_Index]) NEQ 0)
: 1116 3      DO
: 1117 3      !+
: 1118 3      ! This is a large DO in the WHILE-DO command.
: 1119 3      !-
: 1120 4      BEGIN      ! Begin of DO command.
: 1121 4
: 1122 4      REGISTER
: 1123 4      Prep_Error : BYTE,
: 1124 4      Bad      : BYTE,
: 1125 4      Finished : BYTE,
: 1126 4      DDB_Fail : BYTE,
: 1127 4      DDB_Pass : BYTE,
: 1128 4      DDB_Inc_Prep : BYTE;
: 1129 4
: 1130 4      !+
: 1131 4      ! Note that every device in the MENU portion is considered
: 1132 4      ! ESSENTIAL so that the DDB essential bit is not checked.
: 1133 4      !-
: 1134 4
: 1135 4      Finished = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Dev_Test_Complete>;
: 1136 4      Bad      = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Device_Bad>;
: 1137 4      Prep_Error = .DDB_Ptr [CRD$K_DDB_Status] <DDB$V_Status_Preparation_Error>;
: 1138 4
: 1139 4      !+

```

```
: 1140 4 ! Determine if DDB is FAIL
: 1141 4 !-
: 1142 6 DDB_Fail = ( ((NOT(.Finished)) OR .Bad)
: 1143 5 AND
: 1144 6 (NOT (.Prep_Error))
: 1145 4 );
: 1146 4
: 1147 4 !+
: 1148 4 ! Determine if Incorrect Preparation
: 1149 4 !-
: 1150 5 DDB_Inc_Prep = (
: 1151 6 Boolean (.Prep_Error)
: 1152 4 );
: 1153 4
: 1154 4 !+
: 1155 4 ! Determine if DDB is PASS
: 1156 4 !-
: 1157 4 DDB_Pass = ((NOT(.DDB_Fail)) AND (NOT(.DDB_Inc_Prep)));
: 1158 4
: 1159 4 Some_Fail = .Some_Fail OR .DDB_Fail;
: 1160 4 Some_Pass = .Some_Pass OR .DDB_Pass;
: 1161 4 Some_Inc_Prep = .Some_Inc_Prep OR .DDB_Inc_Prep;
: 1162 4
: 1163 5 IF (SELECTONE .I OF
: 1164 5 SET
: 1165 5 [0]: False;
: 1166 5 [1]: .DDB_Fail;
: 1167 5 [2]: .DDB_Pass;
: 1168 5 [3]: .DDB_Inc_Prep;
: 1169 5 TES
: 1170 5 ) ! End of SELECTONE statement
: 1171 4 THEN
: 1172 5 BEGIN
: 1173 5 !+
: 1174 5 ! Set up for printing Hardware Name
: 1175 5 !-
: 1176 5
: 1177 5 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 1178 5 ! Point to the P-Table
: 1179 5 Hdw_Name_Ptr = PTable_Ptr [HP$T_TYPE];
: 1180 5 ! Point to the Hardware device name ASCII
: 1181 5
: 1182 5 !+
: 1183 5 ! Set up for printing Generic Device Name
: 1184 5 !-
: 1185 5
: 1186 5 Dev_Name = CRD$Get_Device_Name (.PTable_Ptr);
: 1187 5 ! Get an ASCII device name string from the Ptable
: 1188 5
: 1189 5
: 1190 5 !+
: 1191 5 ! Print the system hardware text
: 1192 5 !-
: 1193 5
: 1194 6 IF (.Screen_Counter EQL 3)
```

```

: 1195 5 THEN
: 1196 6 BEGIN
: 1197 6 $CRD_Print (CRD$GT_New_Line);
: 1198 6 Screen_Counter = 0;
: 1199 5 END;
: 1200 5
: 1201 5 $CRD_Print (CRD$GT_Tab);
: 1202 5 $CRD_Print (.Hdwr_Name_Ptr);
: 1203 5 $CRD_Print (CRD$GT_Slash);
: 1204 5 $CRD_Print (.Dev_Name);
: 1205 5 $CRD_Print (CRD$GT_Tab);
: 1206 5
: 1207 5 Screen_Counter = .Screen_Counter + 1;
: 1208 5
: 1209 5 END
: 1210 4 ; ! End of large IF THEN command
: 1211 4
: 1212 4
: 1213 4 !+
: 1214 4 ! We are done processing this DDB so move on to the next DDB
: 1215 4 !-
: 1216 4
: 1217 4 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
: 1218 4
: 1219 3 END; ! End of DO command in WHILE-DO loop.
: 1220 3
: 1221 3
: 1222 4 IF (.I EQL 3) ! Make sure there is a space between
: 1223 3 THEN ! the end of summary the next message.
: 1224 3 $CRD_Print (CRD$GT_New_Line);
: 1225 3
: 1226 2 END; ! End of INCR I FROM 0 TO 3 loop.
: 1227 2
: 1228 2 RETURN (CRD$K_Success);
: 1229 1 END; ! End of MEN$Menu_Summary routine

```

```

.EXTRN DS$GETTERM, CRD$GT_INTERNAL_ERROR
.EXTRN CRD$GT_SUMMARY_TITLE
.EXTRN CRD$GT_ALL_FAILURES
.EXTRN CRD$GT_ALL_PASSES
.EXTRN CRD$GT_ALL_INC_HDWR_PREP
.EXTRN CRD$GT_NEW_LINE
.EXTRN CRD$GT_TAB, CRD$GT_SLASH

```

```

      OFFC 00000 .ENTRY MEN$MENU_SUMMARY, Save R2,R3,R4,R5,R6,R7,- ; 1003
      R8,R9,R10,R11
      5E 1C C2 00002 SUBL2 #28, SP ;
08 AE 7C 00005 CLRQ SOME_PASS ; 1030
04 AE D4 00008 CLRL SOME_INC_PREP ;
14 AE 9F 0000B PUSHAB CONSOLE_CHAR ; 1058
      00000000G 9F 01 FB 0000E CALLS #1, @DS$GETTERM ;
      OF 50 E9 00015 BLBC R0, 1$ ;
60 BF 15 AE 91 00018 CMPB CONSOLE_CHAR+1, #96 ; 1067

```

```

19 13 0001D BEQL 2$ ;
40 8F 15 AE 91 0001F CMPB CONSOLE_CHAR+1, #64 ; 1069
12 13 00024 BEQL 2$ ;
04 00026 RET ; 1072
00000000G EF 9F 00027 1$: PUSHAB CRD$GT_INTERNAL_ERROR ; 1075
01 DD 0002D PUSHL #1 ;
1A DD 0002F PUSHL #26 ;
00000000G FF 03 FB 00031 CALLS #3, @CRD$PRINT ;
00000000G EF 9F 00038 2$: PUSHAB CRD$GT_SUMMARY_TITLE ; 1081
01 DD 0003E PUSHL #1 ;
1A DD 00040 PUSHL #26 ;
00000000G FF 03 FB 00042 CALLS #3, @CRD$PRINT ;
5A D4 00049 CLRL I ; 1085
01 5A D1 0004B 3$: CMPL I, #1 ; 1092
0C 12 0004E BNEQ 4$ ;
33 0C AE E9 00050 BLBC SOME_FAIL, 7$ ;
00000000G EF 9F 00054 PUSHAB CRD$GT_ALL_FAILURES ;
20 11 0005A BRB 6$ ;
02 5A D1 0005C 4$: CMPL I, #2 ; 1093
0C 12 0005F BNEQ 5$ ;
22 08 AE E9 00061 BLBC SOME_PASS, 7$ ;
00000000G EF 9F 00065 PUSHAB CRD$GT_ALL_PASSES ;
0F 11 0006B BRB 6$ ;
03 5A D1 0006D 5$: CMPL I, #3 ; 1094
15 12 00070 BNEQ 7$ ;
11 04 AE E9 00072 BLBC SOME_INC_PREP, 7$ ;
00000000G EF 9F 00076 PUSHAB CRD$GT_ALL_INC_HDWR_PREP ;
01 DD 0007C 6$: PUSHL #1 ;
1A DD 0007E PUSHL #26 ;
00000000G FF 03 FB 00080 CALLS #3, @CRD$PRINT ;
52 D4 00087 7$: CLRL TSTQ_TBL_INDEX ; 1101
53 00000000G EF 7D 00089 MOVQ MEN$GA_TEST_QUEUE, TSTQ_TBL_ENTRIES ; 1102
5B D4 00090 CLRL SCREEN_COUNTER ; 1106
00FB 31 00092 BRW 15$ ; 1114
50 14 A5 01 05 EF 00095 8$: EXTZV #5, #1, 20(DDB_PTR), R0 ; 1135
57 50 90 0009B MOVB R0, FINISHED ;
50 14 A5 01 04 EF 0009E EXTZV #4, #1, 20(DDB_PTR), R0 ; 1136
51 50 90 000A4 MOVB R0, BAD ;
58 14 A5 01 01 EF 000A7 EXTZV #1, #1, 20(DDB_PTR), R8 ; 1137
50 58 90 000AD MOVB R8, PREP_ERROR ;
6E 57 9A 000B0 MOVZBL FINISHED, (SP) ; 1142
51 51 9A 000B3 MOVZBL BAD, R1 ;
51 6E 51 CB 000B6 BICL3 R1, (SP), R1 ;
57 50 9A 000BA MOVZBL PREP_ERROR, R7 ; 1144
51 57 C8 000BD BICL2 R7, R1 ;
58 51 92 000C0 MCOMB R1, DDB_FAIL ; 1142
57 50 01 00 EF 000C3 EXTZV #0, #1, PREP_ERROR, R7 ; 1150
51 57 90 000C8 MOVB R7, DDB_INC_PREP ;
57 58 9A 000CB MOVZBL DDB_FAIL, R7 ; 1157
6E 51 9A 000CE MOVZBL DDB_INC_PREP, (SP) ;
57 6E C8 000D1 BICL2 (SP), R7 ;
50 57 92 000D4 MCOMB R7, DDB_PASS ;
57 58 9A 000D7 MOVZBL DDB_FAIL, R7 ; 1159
OC AE 57 C8 000DA BICL2 R7, SOME_FAIL ;
57 50 9A 000DE MOVZBL DDB_PASS, R7 ; 1160
```

```
08 AE      57 C8 000E1 B1SL2 R7, SOME_PASS ;
57      51 9A 000E5 MOVZBL DDB_INC_PREP, R7 ; 1161
04 AE      57 C8 000E8 B1SL2 R7, SOME_INC_PREP ;
5A DS 000EC TSTL I ; 1165
03 12 000EE BNEQ 9$ ;
009B 31 000F0 BRW 14$ ;
01      5A D1 000F3 9$: CMPL I, #1 ; 1166
06 12 000F6 BNEQ 10$ ;
16      58 E8 000F8 BLBS DDB_FAIL, 12$ ;
0090 31 000FB BRW 14$ ;
02      5A D1 000FE 10$: CMPL I, #2 ; 1167
06 12 00101 BNEQ 11$ ;
08      50 E8 00103 BLBS DDB_PASS, 12$ ;
0085 31 00106 BRW 14$ ;
03      5A D1 00109 11$: CMPL I, #3 ; 1168
03 12 0010C BNEQ 12$ ;
7D      51 E9 0010E BLBC DDB_INC_PREP, 14$ ;
56 08 A5 D0 00111 12$: MOVL 8(DDB_PTR), PTABLE_PTR ; 1177
59 26 A6 9E 00115 MOVAB 38(R6), HDWR_NAME_PTR ; 1179
56 DD 00119 PUSHL PTABLE_PTR ; 1186
00000000G EF 01 FB 0011B CALLS #1, CRD$GET_DEVICE_NAME ;
10 AE      50 D0 00122 MOVL R0, DEV_NAME ;
03      5B D1 00126 CMPL SCREEN_COUNTER, #3 ; 1194
13 12 00129 BNEQ 13$ ;
00000000G EF 9F 0012B PUSHAB CRD$GT_NEW_LINE ; 1197
01 DD 00131 PUSHL #1 ;
1A DD 00133 PUSHL #26 ;
00000000G FF 03 FB 00135 CALLS #3, aCRD$PRINT ;
5B D4 0013C CLRL SCREEN_COUNTER ; 1198
00000000G EF 9F 0013E 13$: PUSHAB CRD$GT_TAB ; 1201
01 DD 00144 PUSHL #1 ;
1A DD 00146 PUSHL #26 ;
00000000G FF 03 FB 00148 CALLS #3, aCRD$PRINT ;
59 DD 0014F PUSHL HDWR_NAME_PTR ; 1202
01 DD 00151 PUSHL #1 ;
1A DD 00153 PUSHL #26 ;
00000000G FF 03 FB 00155 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 0015C PUSHAB CRD$GT_SLASH ; 1203
01 DD 00162 PUSHL #1 ;
1A DD 00164 PUSHL #26 ;
00000000G FF 03 FB 00166 CALLS #3, aCRD$PRINT ;
10 AE DD 0016D PUSHL DEV_NAME ; 1204
01 DD 00170 PUSHL #1 ;
1A DD 00172 PUSHL #26 ;
00000000G FF 03 FB 00174 CALLS #3, aCRD$PRINT ;
00000000G EF 9F 0017B PUSHAB CRD$GT_TAB ; 1205
01 DD 00181 PUSHL #1 ;
1A DD 00183 PUSHL #26 ;
00000000G FF 03 FB 00185 CALLS #3, aCRD$PRINT ;
5B D6 0018C INCL SCREEN_COUNTER ; 1207
52 D6 0018E 14$: INCL TSTQ_TBL_INDEX ; 1217
53      52 D1 00190 15$: CMPL TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES ; 1114
09 18 00193 BGEQ 16$ ;
55      6442 D0 00195 MOVL (TSTQ_TBL_PTR)(TSTQ_TBL_INDEX), DDB_PTR ; 1115
03 13 00199 BEQL 16$ ;
```

```

FEF7 31 0019B BRW 8$ ;
03 5A D1 0019E 16$ CMPL I, #3 ; 1222
11 12 001A1 BNEQ 17$ ;
00000000G EF 9F 001A3 PUSHAB CRD$GT_NEW_LINE ; 1224
01 DD 001A9 PUSHL #1 ;
1A DD 001AB PUSHL #26 ;
00000000G FF 03 FB 001AD CALLS #3, aCRD$PRINT ;
FE91 5A 01 03 F1 001B4 17$ ACBL #3, #1, I, 3$ ; 1085
04 001BA RET ; 1229
  
```

; Routine Size: 443 bytes, Routine Base: CODE + 04B3

Symbol	Type	Defined	Referenced	...
\$ASCIC	Macro	Lib02 164	403 429 894	
\$CRD_LITERALS	Macro	Lib03 97		
\$CRD_MESSAGE	Macro	Lib03 185	187 195 207 209 217 218 475 996	
\$CRD_PRINT	Unbound	185	187 195 207 209 217 218 475 996	
	Macro	Lib03 164	185 187 195 207 209 217 218 339 429	
		475 614	796 830 931 957 975 996 1075 1081	
		1092 1093	1094 1197 1201 1202 1203 1204 1205 1224	
\$CRD_TERMCHAR_ATTR	Macro	Lib03 1050		
\$CRD_TERMCHAR_FLD	Fieldset	Lib03 1050		
\$DS_ASKSTR	KeyWMacr	Lib02 986		
\$DS_BREAK	Macro	Lib02 986		
\$DS_GETTERM	KeyWMacr	Lib02 1058		
\$DS_HPO_DECL	Macro	Lib02 281	399 538 889 1038	
\$DS_HPO_F	Fieldset	Lib02 281	399 538 889 1038	
\$DS_TYPEDEF	Macro	Lib02 164	185 187 195 207 209 217 218 344 430	
		475 614	796 832 931 960 975 996 1075 1081	
		1092 1093	1094 1197 1201 1202 1203 1204 1205 1224	
\$EQU_LST	Macro	Lib04 97	98 99 164 185 187 195 207 209 217	
		218 344	430 475 614 796 832 931 960 975	
		996 1075	1081 1092 1093 1094 1197 1201 1202 1203	
		1204 1205	1224	
\$ER	Comptime	88		
\$MEN_ASKSTR	KeyWMacr	Lib03 984		
\$MEN_LITERALS	Macro	Lib03 98		
\$MEN_SUPBLK_ATTR	Macro	Lib03 280	890 1037	
\$MEN_SUPBLK_FLD	Fieldset	Lib03 280	890 1037	
\$MEN_TSTCNFG_ATTR	Macro	Lib03 891		
\$MEN_TSTCNFG_FLD	Fieldset	Lib03 891		
\$MODULE	Bind	88		
\$SCREEN_LITERALS	Macro	Lib03 9		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal	97		
AUTOSK_EXIT_CONTROL_C	Literal	97		
AUTOSK_EXIT_DUMMY_2	Literal	97		

Symbol	Type	Defined	Referenced	...
AUTOSK_EXIT_DUMMY_3	Literal	97		
AUTOSK_EXIT_ERRORS_COMPLETE	Literal	97		
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal	97		
AUTOSK_EXIT_INTERNAL_ERROR	Literal	97		
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal	97		
AUTOSK_EXIT_LAST_REASON	Literal	97	97	
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal	97		
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal	97		
AUTOSK_EXIT_NOERRORS_PREP	Literal	97		
BAD	Register	1124 1136= 1142.		
BOOLEAN	Macro	Lib03 1151		
CHAR_PTR	Register	395 409= 453= 453a= 456= 456a= 472.		
COLON_PTR	Register	656 675= 679. 689.		
COMMA_SPACE	Bind	403 453.		
CONSOLE_CHAR	Local	1050 1058a 1067. 1069.		
CRD\$GB_CRD_DEBUG	External Lib03	163. 427.		
CRD\$GET_DEVICE_NAME	ExtRout Lib03	325c 449c 788c 950c 1186c		
CRD\$GT_ALL_FAILURES	External Lib03	1092a		
CRD\$GT_ALL_INC_HDWR_PREP	External Lib03	1094a		
CRD\$GT_ALL_PASSES	External Lib03	1093a		
CRD\$GT_INTERNAL_ERROR	External Lib03	1075a		
CRD\$GT_NEW_LINE	External Lib03	1197a 1224a		
CRD\$GT_NEW_LINE_MESSAGE	External Lib03	185a 187a 195a 207a 209a 217a 218a 475a 996a		
CRD\$GT_SLASH	External Lib03	1203a		
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	Unbound	185 187 195 207 209 217 218 475 996		
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	Unbound	185 187 195 207 209 217 218 475 996		
CRD\$GT_SUMMARY_TITLE	External Lib03	1081a		
CRD\$GT_TAB	External Lib03	1201a 1205a		
CRD\$K_ACTION_EQL_DO_NOTHING	Literal	97		
CRD\$K_ACTION_RANGE_ERROR	Literal	97		
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	97		
CRD\$K_ADVANCE_GENERAL_COM	Literal	97		
CRD\$K_ADVANCE_STATE	Literal	97		
CRD\$K_ALLOCATION_ERROR	Literal	97		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	97		
CRD\$K_AUTOSIZER_ERROR	Literal	97		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	97		
CRD\$K_BAD_ACTION_NUMBER	Literal	97		
CRD\$K_BAD_TYPECODE_ERROR	Literal	97		
CRD\$K_BASE_SYSTEM_IDC	Literal	97		
CRD\$K_BASE_SYSTEM_LESI	Literal	97		
CRD\$K_BASE_SYSTEM_NULL	Literal	97		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	97		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	97		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	97		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	97		
CRD\$K_CRD_INITIALIZATION	Literal	97		
CRD\$K_CREATE_HST	Literal	97		
CRD\$K_DATA_LENGTH_ERROR	Literal	97		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	97		
CRD\$K_DDB_BLINK	Literal	97		
CRD\$K_DDB_FLINK	Literal	97		
CRD\$K_DDB_LAST_ENTRY	Literal	97		

Symbol	Type	Defined	Referenced ...
CRD\$K_DDB_MEMORY_SIZE	Literal	97	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	97	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	97	559
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	97	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	97	567
CRD\$K_DDB_PTABLE_ENTRY	Literal	97	298 446 788 941 1177
CRD\$K_DDB_STATUS	Literal	97	162 425 1135 1136 1137
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	97	313 912
CRD\$K_DEVICE_NAME	Literal	97	
CRD\$K_DIAGNOSTIC_ERROR	Literal	97	
CRD\$K_DIAGNOSTIC_NAME	Literal	97	
CRD\$K_DONE_GENERAL_COMS	Literal	97	
CRD\$K_DO_NOTHING	Literal	97	
CRD\$K_DUMMY_10	Literal	97	
CRD\$K_DUMMY_11	Literal	97	
CRD\$K_DUMMY_12	Literal	97	
CRD\$K_DUMMY_13	Literal	97	
CRD\$K_DUMMY_3	Literal	97	
CRD\$K_DUMMY_4	Literal	97	
CRD\$K_DUMMY_5	Literal	97	
CRD\$K_DUMMY_6	Literal	97	
CRD\$K_DUMMY_7	Literal	97	
CRD\$K_DUMMY_8	Literal	97	
CRD\$K_DUMMY_9	Literal	97	
CRD\$K_EXIT_CRD	Literal	97	
CRD\$K_HOOK_POINT	Literal	97	
CRD\$K_HS_INTERNAL_ERROR	Literal	97	
CRD\$K_IDC_EVDLB	Literal	97	
CRD\$K_IDC_EVDLC	Literal	97	
CRD\$K_IDC_EVDLD	Literal	97	
CRD\$K_IDC_EVRAD_0	Literal	97	
CRD\$K_IDC_EVRAD_1	Literal	97	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	97	
CRD\$K_INTERNAL_ERROR	Literal	97	
CRD\$K_LAST_ACTION_ROUTINE	Literal	97	
CRD\$K_LAST_ENTRY	Literal	97	589
CRD\$K_LAST_FUNCTION	Literal	97	
CRD\$K_LAST_HOOK_POINT	Literal	97	
CRD\$K_LAST_INTERNAL_ERROR	Literal	97	
CRD\$K_LAST_TYPE	Literal	97	
CRD\$K_LESI_ENWCA	Literal	97	
CRD\$K_LESI_EVRMB_0	Literal	97	
CRD\$K_LESI_EVRMB_1	Literal	97	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	97	
CRD\$K_LEVEL_4_PASSED	Literal	97	
CRD\$K_LOAD_AUTOSIZER	Literal	97	
CRD\$K_LOAD_ERROR	Literal	97	
CRD\$K_LOAD_GENERAL_COM	Literal	97	
CRD\$K_LOAD_LOAD_COM	Literal	97	
CRD\$K_LOAD_SELECT_COM	Literal	97	
CRD\$K_LOAD_SET_EVENT_COM	Literal	97	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	97	
CRD\$K_LOAD_START_COM	Literal	97	

Symbol	Type	Defined	Referenced	...
CRD\$K_LOAD_SUP_FILE	Literal	97		
CRD\$K_MM_INTERNAL_ERROR	Literal	97		
CRD\$K_NEW_LINE	Literal	97		
CRD\$K_PREPARATION_ERROR	Literal	97		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	97		
CRD\$K_RUNTIME	Literal	97 332	579	
CRD\$K_SAME_LINE	Literal	97		
CRD\$K_SET_EVENT_ARGS	Literal	97		
CRD\$K_SET_FLAGS_ARGS	Literal	97		
CRD\$K_SET_UP_DIAGNOSTIC	Literal	97		
CRD\$K_START	Literal	97		
CRD\$K_START_AUTOSIZER	Literal	97		
CRD\$K_START_ERROR	Literal	97		
CRD\$K_START_QUALIFIERS	Literal	97		
CRD\$K_STAR_LINE	Literal	97		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	97		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	97		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	97		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	97		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	97		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	97		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	97		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	97		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	97		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	97		
CRD\$K_STATE_DUMMY_1	Literal	97		
CRD\$K_STATE_DUMMY_10	Literal	97		
CRD\$K_STATE_DUMMY_12	Literal	97		
CRD\$K_STATE_DUMMY_13	Literal	97		
CRD\$K_STATE_DUMMY_2	Literal	97		
CRD\$K_STATE_DUMMY_3	Literal	97		
CRD\$K_STATE_DUMMY_4	Literal	97		
CRD\$K_STATE_DUMMY_6	Literal	97		
CRD\$K_STATE_DUMMY_7	Literal	97		
CRD\$K_STATE_DUMMY_8	Literal	97		
CRD\$K_STATE_EXIT_CRD	Literal	97		
CRD\$K_STATE_INTERNAL_ERROR	Literal	97		
CRD\$K_STATE_LAST_STATE	Literal	97		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	97		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	97		
CRD\$K_STATE_LOAD_ERROR	Literal	97		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	97		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	97		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	97		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	97		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	97		
CRD\$K_STATE_LOAD_START_COM	Literal	97		
CRD\$K_STATE_PREPARATION_ERROR	Literal	97		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	97		
CRD\$K_STATE_START	Literal	97		
CRD\$K_STATE_START_AUTOSIZER	Literal	97		
CRD\$K_STATE_START_ERROR	Literal	97		
CRD\$K_SUCCESS	Literal	Lib03 241	345 478 616 697 742 834 973 999 1228	

```

CRD$K_TERMCHAR_SIZE Literal Lib03 1050
CRD$K_TEST_START_TEXT Literal 97 308
CRD$K_TQ_INTERNAL_ERROR Literal 97
CRD$K_TYPECODE Literal 97
CRD$K_UA_0_EVDLB Literal 97
CRD$K_UA_0_EVDLC Literal 97
CRD$K_UA_0_EVDLD Literal 97
CRD$K_UA_0_EVRLA_0 Literal 97
CRD$K_UA_0_LAST_DIAGNOSTIC Literal 97
CRD$K_UA_1_EVDLB Literal 97
CRD$K_UA_1_EVDLC Literal 97
CRD$K_UA_1_EVDLD Literal 97
CRD$K_UA_1_EVRLA_0 Literal 97
CRD$K_UA_1_EVRLA_1 Literal 97
CRD$K_UA_1_LAST_DIAGNOSTIC Literal 97
CRD$K_UA_2_EVDLB Literal 97
CRD$K_UA_2_EVDLC Literal 97
CRD$K_UA_2_EVDLD Literal 97
CRD$K_UA_2_EVRLA_0 Literal 97
CRD$K_UA_2_LAST_DIAGNOSTIC Literal 97
CRD$K_UA_3_EVDLB Literal 97
CRD$K_UA_3_EVDLC Literal 97
CRD$K_UA_3_EVDLD Literal 97
CRD$K_UA_3_EVRLA_0 Literal 97
CRD$K_UA_3_EVRLA_1 Literal 97
CRD$K_UA_3_LAST_DIAGNOSTIC Literal 97
CRD$PRINT External Lib03 164ac 185ac 187ac 195ac 207ac 209ac 217ac 218ac 344ac 430ac
475ac 614ac 796ac 832ac 931ac 960ac 975ac 996ac 1075ac 1081ac
1092ac 1093ac 1094ac 1197ac 1201ac 1202ac 1203ac 1204ac 1205ac 1224ac
CRD$SCAN$NUMERIC External Lib03 733.
CRD$SCREEN_PAUSE ExtRout Lib03 238c
DDB Bind 288 291a
DDB$V_STATUS_DEVICE_BAD Macro Lib03 167 433 1136
DDB$V_STATUS_DEV_TEST_COMPLETE Macro Lib03 166 1135
DDB$V_STATUS_PREPARATION_ERROR Macro Lib03 1137
DDB_FAIL Register 1126 1142= 1157. 1159. 1166.
DDB_INC_PREP Register 1128 1150= 1157. 1161. 1168.
DDB_PASS Register 1127 1157= 1160. 1167.
DDB_PTR Register 144 160= 162a.
Register 278 291= 298a. 313a.
Register 398 423= 425a. 430. 446a.
Register 537 553= 559a. 567a.
RoutForm 746 783m 788a.
Register 888 910= 912a. 941a.
Register 1036 1115= 1135a. 1136a. 1137a. 1177a.
DDB_STATUS Register 145 162= 164. 166. 167.
Register 400 425= 430. 433.
DEVICE_DATA_BLOCK_STRUCTURE Structur Lib03 144 278 398 537 783 888 1036
DEVICE_NAME Local 437 449= 456a.
DEVICE_NAME_PTR Register 786 788= 796. 832.
DEVNAM_STRING_BUF Own 94 409a 472= 472a 475a
DEVNAM_STRING_BUF_SZ Literal 92 94
DEV_NAME Register 284 325= 344.

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Symbol ----- Type Defined Referenced ...

Register	886	950=	960.	
Local	1049	1186=	1204.	
DIFFERENCE	Register	813		
DS\$ASKSTR	ExtRout	986	986c	
DS\$BREAK	ExtRout	986	986c	986e
DS\$GETTERM	ExtRout	1058	1058c	
DS\$K_PRINTB	Literal	164		
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DS\$K_TYPE_COMMAND_ERR	Literal		164
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DS\$K_TYPE_DS_START	Literal	164	
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Symbol Type Defined Referenced ...

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DS$K_TYPE_ERRDEV Literal 164
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DS$K_TYPE_ERRHARD Literal 164
Literal 185
Literal 185

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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERROR_BODY	Literal	164	
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DS\$K	T Y P E _ E R R O R _ E N D		L i t e r a l	164
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DS\$K_TYPE_ERRSUP	Literal	164	
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DS\$K_TYPE_ERRSYS Literal 164

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Symbol Type Defined Referenced ...

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DS$K_TYPE_ERR_HALT Literal 164
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DS$K_TYPE_EXCEPTION Literal 164
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Symbol

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DS\$K_TYPE_EXCEPTION_HEAD

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Symbol Type Defined Referenced ...

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DS\$K_TYPE_FIRST_PASS	Literal	164	
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22-ENSAB-2.0 MEN\$Menu_Summary
 MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746
 01-04 MEN\$Menu_Summary 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (27)

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Symbol Type Defined Referenced ...

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DS\$K_TYPE_NO_TESTS	Literal	164	
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DS\$K_TYPE_PARAM_ERROR	Literal	164	
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DS\$K_TYPE_PROGRAM_END	Literal	164	

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D S \$ K	T Y P E P R O G R A M I N F O		L i t e r a l	164
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Literal	185
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Literal	187

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DS$K_TYPE_QIO_WRONGVER  Literal  164

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L i t e r a l	218
L i t e r a l	344
L i t e r a l	430
L i t e r a l	475

Symbol ----- Type Defined Referenced ...

Literal	475		
Literal	614		
Literal	796		
Literal	832		
Literal	931		
Literal	960		
Literal	975		
Literal	996		
Literal	996		
Literal	1075		
Literal	1081		
Literal	1092		
Literal	1093		
Literal	1094		
Literal	1197		
Literal	1201		
Literal	1202		
Literal	1203		
Literal	1204		
Literal	1205		
Literal	1224		
DS\$K	TYPE_SCRIPT_ECHO	Literal	164
Literal	185		
Literal	185		
Literal	187		
Literal	187		
Literal	195		
Literal	195		
Literal	207		
Literal	207		
Literal	209		
Literal	209		
Literal	217		
Literal	217		
Literal	218		
Literal	218		
Literal	344		
Literal	430		
Literal	475		
Literal	475		
Literal	614		
Literal	796		
Literal	832		
Literal	931		
Literal	960		
Literal	975		
Literal	996		
Literal	996		
Literal	1075		
Literal	1081		
Literal	1092		
Literal	1093		
Literal	1094		

Symbol	Type	Defined	Referenced	...
Literal		1197		
Literal		1201		
Literal		1202		
Literal		1203		
Literal		1204		
Literal		1205		
Literal		1224		
DS\$K_TYPE_SCRIPT_PNF	Literal		164	
Literal		185		
Literal		185		
Literal		187		
Literal		187		
Literal		195		
Literal		195		
Literal		207		
Literal		207		
Literal		209		
Literal		209		
Literal		217		
Literal		217		
Literal		218		
Literal		218		
Literal		344		
Literal		430		
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Literal		475		
Literal		614		
Literal		796		
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Literal		996		
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Literal		1075		
Literal		1081		
Literal		1092		
Literal		1093		
Literal		1094		
Literal		1197		
Literal		1201		
Literal		1202		
Literal		1203		
Literal		1204		
Literal		1205		
Literal		1224		
DS\$K_TYPE_SCRIPT_PROMPT	Literal		164	
Literal		185		
Literal		185		
Literal		187		
Literal		187		
Literal		195		
Literal		195		

Symbol Type Defined Referenced ...

Literal	207	
Literal	207	
Literal	209	
Literal	209	
Literal	217	
Literal	217	
Literal	218	
Literal	218	
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Literal	931	
Literal	960	
Literal	975	
Literal	996	
Literal	996	
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Literal	1093	
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Literal	1197	
Literal	1201	
Literal	1202	
Literal	1203	
Literal	1204	
Literal	1205	
Literal	1224	
DS\$K TYPE_SCRIPT SKIP	Literal	164
Literal	185	
Literal	185	
Literal	187	
Literal	187	
Literal	195	
Literal	195	
Literal	207	
Literal	207	
Literal	209	
Literal	209	
Literal	217	
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Literal	344	
Literal	430	
Literal	475	
Literal	475	
Literal	614	
Literal	796	

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 MENTST CRD MENU - Test Routines 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746
 01-04 MENSMenu_Summary 3-Jan-1985 17:02:36 [DS.CRD.V020]MENTST.B32;1 (27)

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Symbol Type Defined Referenced ...

Literal	832		
Literal	931		
Literal	960		
Literal	975		
Literal	996		
Literal	996		
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Literal	1081		
Literal	1092		
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Literal	1094		
Literal	1197		
Literal	1201		
Literal	1202		
Literal	1203		
Literal	1204		
Literal	1205		
Literal	1224		
DS\$K	TYPE_SEQUENCE_ERROR	Literal	164
Literal	185		
Literal	185		
Literal	187		
Literal	187		
Literal	195		
Literal	195		
Literal	207		
Literal	207		
Literal	209		
Literal	209		
Literal	217		
Literal	217		
Literal	218		
Literal	218		
Literal	344		
Literal	430		
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Literal	614		
Literal	796		
Literal	832		
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Literal	960		
Literal	975		
Literal	996		
Literal	996		
Literal	1075		
Literal	1081		
Literal	1092		
Literal	1093		
Literal	1094		
Literal	1197		
Literal	1201		
Literal	1202		

Symbol	Type	Defined	Referenced	...

	Literal	1203		
	Literal	1204		
	Literal	1205		
	Literal	1224		
DS\$K	TYPE_START_ERR	Literal	164	
	Literal	185		
	Literal	185		
	Literal	187		
	Literal	187		
	Literal	195		
	Literal	195		
	Literal	207		
	Literal	207		
	Literal	209		
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	Literal	1094		
	Literal	1197		
	Literal	1201		
	Literal	1202		
	Literal	1203		
	Literal	1204		
	Literal	1205		
	Literal	1224		
DS\$K	TYPE_START_LIST	Literal	164	
	Literal	185		
	Literal	185		
	Literal	187		
	Literal	187		
	Literal	195		
	Literal	195		
	Literal	207		
	Literal	207		
	Literal	209		

Symbol Type Defined Referenced ...

Literal	209		
Literal	217		
Literal	217		
Literal	218		
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Literal	430		
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Literal	1197		
Literal	1201		
Literal	1202		
Literal	1203		
Literal	1204		
Literal	1205		
Literal	1224		
DS\$K_TYPE_SUMMARY	Literal	164	
Literal	185		
Literal	185		
Literal	187		
Literal	187		
Literal	195		
Literal	195		
Literal	207		
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Literal	209		
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Literal	344		
Literal	430		
Literal	475		
Literal	475		
Literal	614		
Literal	796		
Literal	832		
Literal	931		
Literal	960		

Symbol	Type	Defined	Referenced	...
Literal	1224			
FAILED_HDWR_FOUND	Register	393	393= 459= 469.	
FALSE	Literal	Lib03 140	190 199 212 222 393 883 884 981 1041	
1042	1043	1165		
FINISHED	Register	1125	1135= 1142.	
FNCTST_COMPLETE	Register	139	139= 166= 166. 175.	
FNCTST_ERROR	Register	140	140= 167= 167. 178. 200.	
GET1ST	Macro	Lib04 97	98 99 164 185 187 195 207 209 217	
218	344	430	475 614 796 832 931 960 975	
996	1075	1081	1092 1093 1094 1197 1201 1202 1203	
1204	1205	1224		
GET2ND	Unbound	97	98 99 164 185 187 195 207 209 217	
218	344	430	475 614 796 832 931 960 975	
996	1075	1081	1092 1093 1094 1197 1201 1202 1203	
1204	1205	1224		
HDWR_FOUND	Register	883	883= 933= 971.	
HDWR_NAME_PTR	Register	283	300= 344.	
Register	885	943= 960.		
Local	1048	1179= 1202.		
HP\$K_LENGTH	Literal	Lib02 281	399 538 889 1038	
HP\$T_TYPE	Field	Lib02 300a	943a 1179a	
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	97		
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	97		
HS\$K_ACTION_ADVANCE_STATE	Literal	97		
HS\$K_ACTION_CHANGE_TABLE	Literal	97		
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	97		
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	97		
HS\$K_ACTION_DO_NOTHING	Literal	97		
HS\$K_ACTION_DUMMY_3	Literal	97		
HS\$K_ACTION_DUMMY_4	Literal	97		
HS\$K_ACTION_DUMMY_5	Literal	97		
HS\$K_ACTION_DUMMY_6	Literal	97		
HS\$K_ACTION_INIT_HS	Literal	97		
HS\$K_ACTION_INTERNAL_ERROR	Literal	97		
HS\$K_ACTION_LAST_ACTION	Literal	97		
HS\$K_ACTION_LOAD_ERROR	Literal	97		
HS\$K_ACTION_LOAD_GENERAL_COM	Literal	97		
HS\$K_ACTION_LOAD_LOAD_COM	Literal	97		
HS\$K_ACTION_LOAD_SELECT_COM	Literal	97		
HS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	97		
HS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	97		
HS\$K_ACTION_LOAD_START_COM	Literal	97		
HS\$K_ACTION_PREPARATION_ERROR	Literal	97		
HS\$K_ACTION_START_ERROR	Literal	97		
HS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	97		
HS\$K_STATE_ADVANCE_GENERAL_COM	Literal	97		
HS\$K_STATE_CHANGE_TABLE	Literal	97		
HS\$K_STATE_DIAGNOSTIC_ERROR	Literal	97		
HS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	97		
HS\$K_STATE_DONE_GENERAL_COMS	Literal	97		
HS\$K_STATE_DUMMY_1	Literal	97		
HS\$K_STATE_DUMMY_2	Literal	97		
HS\$K_STATE_DUMMY_3	Literal	97		

Symbol	Type	Defined	Referenced ...
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HS\$K_STATE_DJMMY_4	Literal	97	
HS\$K_STATE_DUMMY_6	Literal	97	
HS\$K_STATE_INIT_HS	Literal	97	
HS\$K_STATE_INTERNAL_ERROR	Literal	97	
HS\$K_STATE_LAST_STATE	Literal	97	
HS\$K_STATE_LOAD_ERROR	Literal	97	
HS\$K_STATE_LOAD_GENERAL_COM	Literal	97	
HS\$K_STATE_LOAD_LOAD_COM	Literal	97	
HS\$K_STATE_LOAD_SELECT_COM	Literal	97	
HS\$K_STATE_LOAD_SET_EVENT_COM	Literal	97	
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	97	
HS\$K_STATE_LOAD_START_COM	Literal	97	
HS\$K_STATE_PREPARATION_ERROR	Literal	97	
HS\$K_STATE_START_ERROR	Literal	97	
HST	Bind	289 292a	
HST_INDEX	Register	535 569= 571= 571.	
HST_NO	Register	534 567= 571.	
HST_PTR	Register	279 292= 308a. 332a.	
	Register	539 559= 579a. 589= 589.	
I	Local	1085 1090. 1163. 1222.	
I_DDB	RoutForm	245 288.	
I_HST	RoutForm	245 289.	
I_LENGTH	RoutForm	701 736.	
I_MINUTES	RoutForm	620 664.	
I_POINTER	RoutForm	701 737.	
I_RETVAL	RoutForm	701 738.	
I_SECONDS	RoutForm	620 665.	
I_TIME	RoutForm	620 663.	
JSB_SCAN_NUMERIC	Linkage	Lib03 733	
LEFT	Register	809 822= 832.	
LENGTH	Bind	736 740a	
MEN\$CVT_TIME_ASC_D	GlobRout	620 Lib03e 72f 582c	
MEN\$FNCTST_CMPLERR_STATUS	GlobRout	102 Lib03e 68f	
MEN\$FNCTST_TFSTSTRT_TEXT	GlobRout	245 Lib03e 69f	
MEN\$GA_TEST_DEUE	External	Lib03 152. 153. 416. 417. 546. 547. 901. 902. 1102. 1103.	
MEN\$GB_TEST_IN_PROGRESS	External	Lib03 222=	
MEN\$GET_TSTCLA_NAME	ExtRout	Lib0? 315c	
MEN\$GK_TEST_QUEUE	Literal	98	
MEN\$GT_ASSISTANCE_MSG	External	Lib03 218a	
MEN\$GT_CALL_FLDSRV	External	Lib03 187a 209a	
MEN\$GT_FAILED_HDWR_NAME	External	Lib03 475a	
MEN\$GT_FNCTST_CMPL_ERR	External	Lib03 185a	
MEN\$GT_FNCTST_CMPL_NOERR	External	Lib03 195a	
MEN\$GT_FNCTST_INCMPL_ERR	External	Lib03 207a	
MEN\$GT_FNCTST_INCMPL_NOERR	External	Lib03 217a	
MEN\$GT_FNCTST_TESTSTRT_TEXT	External	Lib03 344a	
MEN\$GT_INVOPERINPUT	External	Lib03 996a	
MEN\$GT_OPERINPUT_BUFFER	External	Lib03 986a 993.	
MEN\$GT_PREP_ERROR_TEXT	External	Lib03 806m 832a	
MEN\$GT_PREP_ERROR_TEXT_NO_USER	External	Lib03 796a	
MEN\$GT_RUNTIME_TOTAL	External	Lib03 614a	
MEN\$GT_SCRMEDIA_HDWR	External	Lib03 960a	
MEN\$GT_SCRMEDIA_HDWR_END	External	Lib03 975a	

Symbol	Type	Defined	Referenced ...
MENS\$GT_SCRMEDIA_MSG	External	Lib03 931a	
MENS\$GT_SCRMEDIA_PROMPT	External	Lib03 986a	
MENS\$K_CNTLC_SEL_CONTINUE	Literal	98	
MENS\$K_CNTLC_SEL_EXIT	Literal	98	
MENS\$K_CNTLC_SEL_FTMENU	Literal	98	
MENS\$K_CNTLC_SEL_LAST_ENTRY	Literal	98	
MENS\$K_DEVTSTPREP_1	Literal	98	
MENS\$K_DEVTSTPREP_2	Literal	98	
MENS\$K_DEVTSTPREP_3	Literal	98	
MENS\$K_DEVTSTPREP_4	Literal	98	
MENS\$K_DEVTSTPREP_5	Literal	98	
MENS\$K_DEVTSTPREP_6	Literal	98	
MENS\$K_DEVTSTPREP_7	Literal	98	
MENS\$K_DEVTSTPREP_NULL	Literal	98	
MENS\$K_FTMRET_EXIT	Literal	98	
MENS\$K_FTMRET_FAILURE	Literal	98	
MENS\$K_FTMRET_MENU	Literal	98	
MENS\$K_FTMRET_TEST	Literal	98	
MENS\$K_FTMSEL_EXIT	Literal	98	
MENS\$K_FTMSEL_FNCTST_ALL	Literal	98	
MENS\$K_FTMSEL_LAST_ENTRY	Literal	98	
MENS\$K_FTMSEL_PREP	Literal	98	
MENS\$K_FTMSEL_SYSTEM_HDWR	Literal	98	
MENS\$K_FTMSEL_TEST	Literal	98	
MENS\$K_HS_STATE_TABLE	Literal	97	
MENS\$K_MM_STATE_TABLE	Literal	97	
MENS\$K_PREP_ERROR_TEXT_LEN	Literal	98	
MENS\$K_SELDEV_NUMB_START	Literal	98	
MENS\$K_SUPBLK_SIZE	Literal	Lib03 280	890 1037
MENS\$K_TMENU_TSTALL_DEVNUMB	Literal	98	
MENS\$K_TQ_STATE_TABLE	Literal	97	
MENS\$K_TSTCLA_ALL	Literal	98	
MENS\$K_TSTCLA_CARD	Literal	98	
MENS\$K_TSTCLA_COMM	Literal	98	
MENS\$K_TSTCLA_CPU	Literal	98	
MENS\$K_TSTCLA_DISK	Literal	98	
MENS\$K_TSTCLA_IO_ADAPTOR	Literal	98	
MENS\$K_TSTCLA_LAST_ENTRY	Literal	98	
MENS\$K_TSTCLA_MEMORY	Literal	98	
MENS\$K_TSTCLA_NULL	Literal	98	
MENS\$K_TSTCLA_PRINTER	Literal	98	
MENS\$K_TSTCLA_REAL	Literal	98	
MENS\$K_TSTCLA_TAPE	Literal	98	
MENS\$K_TSTCLA_TERM	Literal	98	
MENS\$K_TSTCNFG_SIZE	Literal	Lib03 891	
MENS\$K_TSTCTG_CPU	Literal	98	
MENS\$K_TSTCTG_IO_ADAPTOR	Literal	98	
MENS\$K_TSTCTG_IO_CONTROLLER	Literal	98	
MENS\$K_TSTCTG_IO_UNIT	Literal	98	
MENS\$K_TSTCTG_MEMORY	Literal	98	
MENS\$K_TSTCTG_NULL	Literal	98	
MENS\$K_TSTTXT_DEVNAM_SZ	Literal	98	
MENS\$K_TSTTXT_TSTCLA_SZ	Literal	98	

Symbol	Type	Defined	Referenced	...
MEN\$K_TSTTXT_UTNAM_SZ	Literal	98		
MEN\$MENU_SUMMARY	GlobRout	1003 Lib03e	75f	232c
MEN\$PREPARATION_ERR_TEXT	GlobRout	746 Lib03e	74f	
MEN\$PRINT_FAILED_HDWR	GlobRout	349 Lib03e	70f	186c 208c
MEN\$PRINT_RUNTIME_TOTAL	GlobRout	482 Lib03e	71f	
MEN\$SCAN_NUMERIC_ASC_D	GlobRout	701 Lib03e	73f	682c 694c
MEN\$SCRATCH_MEDIA_MSG	GlobRout	838 Lib03e	67f	
MEN\$V_TQ_TABLE_NUMB_ENTRIES	Field	Lib03	152.	416. 546. 901. 1102.
MEN\$V_TQ_TABLE_PTR	Field	Lib03	153.	417. 547. 902. 1103.
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	97		
MEN\$K_EXIT_INTERNAL_ERROR	Literal	97		
MEN\$K_EXIT_LAST_REASON	Literal	97		
MEN\$K_EXIT_OPERATOR_ABORT	Literal	97		
MEN\$K_EXIT_OPERATOR_STOP	Literal	97		
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	97		
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	97		
MINUTES	Bind	664 682a		
MINUTES_PTR	Register	657 677=	679.	682.
MINUTES_SZ	Register	658 679=	682.	
MINUTE_TOTAL	Register	529 529=	585=	585. 602= 602. 614.
MM\$K_ACTION_ADVANCE_STATE	Literal	97		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	97		
MM\$K_ACTION_BUILD_DDBS	Literal	97		
MM\$K_ACTION_BUILD_HSTS	Literal	97		
MM\$K_ACTION_CHANGE_TABLE	Literal	97		
MM\$K_ACTION_DONE_INITS	Literal	97		
MM\$K_ACTION_DO_NOTHING	Literal	97		
MM\$K_ACTION_DUMMY_3	Literal	97		
MM\$K_ACTION_DUMMY_4	Literal	97		
MM\$K_ACTION_DUMMY_5	Literal	97		
MM\$K_ACTION_DUMMY_6	Literal	97		
MM\$K_ACTION_DUMMY_7	Literal	97		
MM\$K_ACTION_DUMMY_8	Literal	97		
MM\$K_ACTION_INTERNAL_ERROR	Literal	97		
MM\$K_ACTION_LAST_ACTION	Literal	97		
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	97		
MM\$K_ACTION_MENU_PROMPT	Literal	97		
MM\$K_ACTION_PRINT_MENU	Literal	97		
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	97		
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	97		
MM\$K_ACTION_START_AUTOSIZER	Literal	97		
MM\$K_STATE_AUTOSIZER_ERROR	Literal	97		
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	97		
MM\$K_STATE_BUILD_DDBS	Literal	97		
MM\$K_STATE_BUILD_HSTS	Literal	97		
MM\$K_STATE_CHANGE_TABLE	Literal	97		
MM\$K_STATE_DONE_INITS	Literal	97		
MM\$K_STATE_DUMMY_1	Literal	97		
MM\$K_STATE_DUMMY_2	Literal	97		
MM\$K_STATE_DUMMY_3	Literal	97		
MM\$K_STATE_DUMMY_5	Literal	97		
MM\$K_STATE_DUMMY_7	Literal	97		
MM\$K_STATE_DUMMY_8	Literal	97		

Symbol	Type	Defined	Referenced	...
MM\$K_STATE_INTERNAL_ERROR	Literal	97		
MM\$K_STATE_LAST_STATE	Literal	97		
MM\$K_STATE_LOAD_AUTOSIZER	Literal	97		
MM\$K_STATE_MENU_PROMPT	Literal	97		
MM\$K_STATE_PRINT_MENU	Literal	97		
MM\$K_STATE_PRINT_MENU_HEADING	Literal	97		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	97		
MM\$K_STATE_START	Literal	97		
MM\$K_STATE_START_AUTOSIZER	Literal	97		
MODNAM	Macro	Lib01	88	
NAME_PTR	Register	277	308= 310. 310a. 319.	
NUL2ND	Macro	Lib04	97 98 99 164 185 187 195 207 209 217	
		218 344 430 475 614 796 832 931 960 975		
		996 1075 1081 1092 1093 1094 1197 1201 1202 1203		
		1204 1205 1224		
NUMB_BAD_DEVICES	Register	396	396= 439= 439. 452.	
POINTER	Bind	737	740a	
PREP_ERROR	Register	1123	1137= 1144. 1151.	
PREP_TEXT_LEN	Register	811		
PRINTED_BASIC_MSG	Register	884	884= 928. 932=	
PTABLE_PTR	Register	281	298= 300aa 325.	
	Register	399	446= 449.	
	Register	538		
	Register	889	941= 943aa 950.	
	Register	1038	1177= 1179aa 1186.	
RETVAL	Bind	738	740=	
RIGHT	Register	810	823= 832.	
RUNTIME_MINUTES	Local	524	577= 582a 585.	
RUNTIME_PTR	Register	285	332= 344.	
	Register	536	579 582.	
RUNTIME_SECONDS	Local	525	578= 582a 587.	
SCAN_NUMERIC	BindRout	733	740c	
SCREEN\$K_CLEAR_SCREEN	Literal	99		
SCREEN\$K_COUNT_LINE	Literal	99		
SCREEN\$K_PRESS_RETURN	Literal	99		
SCREEN\$K_PRESS_RETURN_MM	Literal	99	238	
SCREEN\$K_PRESS_RETURN_TM	Literal	99		
SCREEN\$K_TM_MSG	Literal	99		
SCREEN_COUNTER	Local	1051	1106= 1194. 1198= 1207= 1207.	
SECONDS	Bind	665	694a	
SECONDS_PTR	Register	659	689= 691. 694.	
SECONDS_SZ	Register	660	691= 694.	
SECOND_REMAINING	Register	528	608= 614.	
SECOND_TOTAL	Register	530	530= 587= 587. 602. 608.	
SOME_FAIL	Local	1041	1041= 1092. 1159= 1159.	
SOME_INC_PREP	Local	1043	1043= 1094. 1161= 1161.	
SOME_PASS	Local	1042	1042= 1093. 1160= 1160.	
STATUS	Local	986	986= 986.	
SUPBLK\$B_STRTFRST_CNFGBLK	Field	Lib03	914a	
SUPBLK\$B_TEST_CLASS	Field	Lib03	315a	
SUPBLK_PTR	Register	280	313= 315aa	
	Register	890	912= 914aa	
	Register	1037		

Symbol	Type	Defined	Referenced	...
TERMCHAR\$B_TYPE	Field	Lib03 1067.	1069.	
TIME	Bind	663 667a		
TIME_END_PTR	Register	654 673=	675. 691.	
TIME_PTR	Register	655 667=	673a. 673aa 675aa 675a. 677aa	
TQ\$K_ACTION_ADVANCE_STATE	Literal	97		
TQ\$K_ACTION_CHANGE_TABLE	Literal	97		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	97		
TQ\$K_ACTION_DO_NOTHING	Literal	97		
TQ\$K_ACTION_DUMMY_3	Literal	97		
TQ\$K_ACTION_DUMMY_4	Literal	97		
TQ\$K_ACTION_DUMMY_5	Literal	97		
TQ\$K_ACTION_GET_DDB	Literal	97		
TQ\$K_ACTION_INIT_TQ	Literal	97		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	97		
TQ\$K_ACTION_LAST_ACTION	Literal	97		
TQ\$K_STATE_CHANGE_TABLE	Literal	97		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	97		
TQ\$K_STATE_DUMMY_1	Literal	97		
TQ\$K_STATE_DUMMY_2	Literal	97		
TQ\$K_STATE_DUMMY_3	Literal	97		
TQ\$K_STATE_DUMMY_4	Literal	97		
TQ\$K_STATE_DUMMY_5	Literal	97		
TQ\$K_STATE_GET_DDB	Literal	97		
TQ\$K_STATE_INIT_TQ	Literal	97		
TQ\$K_STATE_INTERNAL_ERROR	Literal	97		
TQ\$K_STATE_LAST_STATE	Literal	97		
TRUE	Literal	Lib03 139 177 180 202 459 932 933		
TSTCLA_NAME_PTR	Local	274 315a 319= 344.		
TSTCNFG\$V STATUS_SCRATCH	Field	Lib03 921.		
TSTCNFG_PTR	Register	891 914= 921a.		
TSTQ_TBL_ENTRIES	Register	142 152= 160.		
Local	389 416= 423.			
Register	532 546= 553.			
Local	878 910.			
Register	1034 1102= 1114.			
TSTQ_TBL_INDEX	Register	141 151= 160. 168= 168.		
Local	388 415= 423. 462= 462.			
Register	531 545= 553. 594= 594.			
Local	877 900= 910. 963= 963.			
Register	1033 1101= 1114. 1115. 1217= 1217.			
TSTQ_TBL_PTR	Register	143 153= 160a. 230a.		
Local	390 417= 423a.			
Register	533 547= 553a.			
Local	879 902= 910a.			
Register	1035 1103= 1115a.			
TT\$-VT100	Literal	Lib04 1067		
TT\$-VT52	Literal	Lib04 1069		
T_PROMPT_DEFAULT	Bind	894 986a 994.		
USER_TEXT_LEN	Register	812		
USER_TEXT_PTR	RoutForm	746 782m 795. 832.		
VALID_STATUS	Register	882 981= 993= 997.		

CROSS REFERENCE MAP

Line # Event File ...

```

1 Source (start) DISK$DIAGPACK03:[DS.CRD.V020]MENTST.B32;1
3 Module MENTST
60 Library #1 DISK$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
61 Library #2 DISK$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
62 Library #3 DISK$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
63 Library #4 SYS$COMMON:[SYSLIB]LIB.L32;2
1231 Eludom MENTST

```

KEY TO REFERENCE TYPE FLAGS

```

. Fetch
= Store
c Routine call
a Address use
@ Indirect use
e External, external routine, or external literal declaration
f Forward or forward routine declaration
h Condition handler enabling
m Map declaration
u Undeclare declaration

```

; Library Statistics

File	----- Symbols -----			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17					
671	1	0		46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30					
923	21	2		94	00:00.1
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1					
486	90	18		62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2			18619	5	0
				1000	00:04.2

; COMMAND QUALIFIERS

; BLISS MENTST.B32/LIST=MENTST.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MENTST.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 1646 code + 381 data bytes

; Run Time: 01:36.3

; Elapsed Time: 01:51.1

; Lines/CPU Min: 766

; Lexemes/CPU-Min: 76981

22-ENSAB-2.0 MEN\$Menu_Summary K 9
MENTST CRD MENU - Test Routines 19-Sep-1985 19-Sep-1985 Fiche 8 Frame K9 Sequence 1556
01-04 MEN\$Menu_Summary 19-Sep-1985 17:21:39 VAX-11 Bliss-32 V4.1-746 Page 91

; Memory Used: 471 pages
; Compilation Complete

```
; 0001 0 *TITLE 'CRD MENU - Test Initialization'
; 0002 0 MODULE MENTSTINI (
; 0003 0 IDENT = 'V01.4'
; 0004 0 ) =
; 0005 0 !
; 0006 0 ! COPYRIGHT (C) 1982,1985
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !
; 0024 0 ! **
; 0025 0 ! FACILITY:
; 0026 0 !
; 0027 0 ! ABSTRACT:
; 0028 0 !
; 0029 0 ! ENVIRONMENT:
; 0030 0 !
; 0031 0 ! AUTHOR:
; 0032 0 !
; 0033 0 ! John Ciukaj May-1982
; 0034 0 !
; 0035 0 ! CREATION DATE:
; 0036 0 !
; 0037 0 ! VERSION:
; 0038 0 !
; 0039 0 ! Modified by:
; 0040 0 !
; 0041 0 ! 01 John Ciukaj Version 1.2 4-April-1983
; 0042 0 ! - changed references to CRD bits of DSA Flags to
; 0043 0 ! distinguish between Offline and Online.
; 0044 0 !
; 0045 0 ! 02 rwp 3-OCT-1984
; 0046 0 ! Added code to handle CRD online
; 0047 0 !
; 0048 0 ! 03 Ronald W. Parker 28-JAN-1985
; 0049 0 ! - Added code to test for ONLINE vs. OFFLINE diagnostics
; 0050 0 ! that are in the EVLAA data base.
; 0051 0 !
; 0052 0 ! 04 Amy Iorio 15-AUG-1985
; 0053 0 ! - Substituted RMS for $DS_LOAD call.
; 0054 0 !
; 0055 0 ! 05 Ronald W. Parker
```

```

; 0056 0 ! - Changed EVLAA back to ENLAA
; 0057 0 !--
; 0058 0 xSBTTL 'Libraries'
; 0059 1 BEGIN
; 0060 1
; 0061 1 LIBRARY
; 0062 1 '$DS';
; 0063 1 LIBRARY
; 0064 1 '$DIAG';
; 0065 1 LIBRARY
; 0066 1 '$CRD';
; 0067 1 LIBRARY
; 0068 1 '$SYS$LIBRARY:LIB';
; 0069 1
; 0070 1 BUILTIN
; 0071 1 INSQUE,
; 0072 1 REMQUE;
; 0073 1 xSBTTL 'Forward-External Routines'
; 0074 1
; 0075 1 FORWARD ROUTINE
; 0076 1
; 0077 1 MEN$Menu_FncTst_Init : ADDRESSING_MODE (LONG_RELATIVE),
; 0078 1 MEN$Build_DDB : ADDRESSING_MODE (LONG_RELATIVE),
; 0079 1 MEN$Determine_Support : ADDRESSING_MODE (LONG_RELATIVE),
; 0080 1 Create_HST : ADDRESSING_MODE (LONG_RELATIVE),
; 0081 1 MEN$Specify_SelectNo : ADDRESSING_MODE (LONG_RELATIVE),
; 0082 1 MEN$Allocate_Memory : ADDRESSING_MODE (LONG_RELATIVE),
; 0083 1 MEN$Load_File : ADDRESSING_MODE (LONG_RELATIVE),
; 0084 1 MEN$Find_SupBlk : ADDRESSING_MODE (LONG_RELATIVE),
; 0085 1 MEN$Dump_TstQ_HST : ADDRESSING_MODE (LONG_RELATIVE),
; 0086 1 MEN$Menu_Cleanup : ADDRESSING_MODE (LONG_RELATIVE);
; 0087 1 xSBTTL 'Psect Definitions'
; 0088 1
; 0089 1 PSECT
; 0090 1 PLIT = Data (NOEXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0091 1 PSECT
; 0092 1 CODE = Code (EXECUTE, SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0093 1 PSECT
; 0094 1 OWN = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0095 1 PSECT
; 0096 1 GLOBAL = Work (NOEXECUTE, NOSHARE, WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0097 1 xSBTTL 'Module-Global Static Storage'
; 0098 1
; 0099 1 Modnam ('MENTSTINI'); ! Module Name for Errsup Macro
; 0100 1 xSBTTL 'Macro - Literal Definitions'
; 0101 1
; 0102 1 $CRD_Literals;
; 0103 1 $MEN_Literals;
; 0104 1 $DS_DSADef; ! Define the DSA flags
; 0105 1 xSBTTL 'Macro Definitions'
; 0106 1
; 0107 1 MACRO
; M 0108 1 Internal_Error_Exit (Type, Size_1, Size_2, Addr) =
; M 0109 1 BEGIN
; M 0110 1 MEN$Menu_Test_Internal_Error (Type, Size_1, Size_2, Addr);

```

```
: M 0111 1 CRD$Stop (MENU$K_Exit_Internal_Error);
: M 0112 1 END
: 0113 1 x;
: 0114 1
: 0115 1 MACRO
: M 0116 1 Load_Error_Exit (RMS_Status) =
: M 0117 1 BEGIN
: M 0118 1 IF (RMS_Status EQL RMS$_FNF) THEN
: M 0119 1 CRD$Stop (MENU$K_Exit_Sup_File_Not_Found)
: M 0120 1 ELSE
: M 0121 1 CRD$Stop (MENU$K_Exit_Sup_File_Load_Err)
: M 0122 1 END
: 0123 1 x;
: 0124 1 xSBTTL 'Module Storage'
: 0125 1
: 0126 1 GLOBAL
: 0127 1
: 0128 1 MEN$GA_DDB_Head : $MEN_Queue_Link_ATTR
: 0129 1 PRESET (
: 0130 1 [Queue$L_FLink] = 0,
: 0131 1 [Queue$L_BLink] = 0
: 0132 1 ),
: 0133 1
: 0134 1 MEN$GA_FuncSup_DatBase : $MEN_FuncSup_DatBase_ATTR
: 0135 1 PRESET (
: 0136 1 [MEN$V_FuncSup_DatBase_Size] = 0,
: 0137 1 [MEN$V_FuncSup_DatBase_Ptr] = 0,
: 0138 1 [MEN$V_FuncSup_DatBase_Total_Siz] = 0,
: 0139 1 [MEN$V_FuncSup_DatBase_Start] = 0
: 0140 1 ),
: 0141 1
: 0142 1 ! longword array pointing to ASCII Support
: 0143 1 ! database for CRD MENU Functional Testing
: 0144 1 ! [0] = Size in bytes of database
: 0145 1 ! [1] = Address pointer to first device
: 0146 1 ! support block
: 0147 1 ! [2] = Size in bytes of allocated memory
: 0148 1 ! for database
: 0149 1 ! [3] = Address pointer to start of
: 0150 1 ! loaded database
: 0151 1
: 0152 1 MEN$GA_Test_Queue : $MEN_Test_Queue_ATTR
: 0153 1 PRESET (
: 0154 1 [MEN$V_TQ_Table_Numb_Entries] = 0,
: 0155 1 [MEN$V_TQ_Table_Ptr] = 0,
: 0156 1 [MEN$V_TQ_Table_Size] = 0
: 0157 1 ),
: 0158 1
: 0159 1 ! longword array pointing to Test Queue
: 0160 1 ! DDB pointer Table for CRD MENU Functional Testing
: 0161 1 ! [0] = Number of longword entries in Table
: 0162 1 ! [1] = Address pointer to table and first
: 0163 1 ! DDB pointer entry. DDB pointers
: 0164 1 ! are valid until first null DDB pointer entry.
: 0165 1 ! [2] = Size in bytes of allocated memory
```

```

; 0166 1      !      space for Table.
; 0167 1
; 0168 1      MEN$GB_FncTst_Init  : BYTE INITIAL (BYTE (False)),
; 0169 1
; 0170 1      ! Flag location indicating Functional Test
; 0171 1      ! Initialization Status
; 0172 1      ! 0 or False = Init not complete
; 0173 1      ! 1 or True = Init complete
; 0174 1
; 0175 1      MEN$GB_Test_In_Progress : BYTE INITIAL (BYTE (False));
; 0176 1
; 0177 1      ! Flag location indicating Diagnostic Test Status
; 0178 1      ! 0 or False = Diagnostic testing is not in progress
; 0179 1      ! 1 or True = Diagnostic testing is in progress
; 0180 1 xSBTTL 'Support File Names'
; 0181 1
; 0182 1 OWN
; 0183 1      A_MenFuncSup_File : BLOCK [DSC$K_S_BLN, BYTE],
; 0184 1      ! Descriptor for Functional Test Support File
; 0185 1      A_File_Default    : BLOCK [DSC$K_S_BLN, BYTE];
; 0186 1      ! Descriptor for null file
; 0187 1 GLOBAL BIND
; 0188 1      MEN$GT_MenFuncSup_File = $ASCIC ('ENLAA.SUP') : VECTOR [,BYTE],
; 0189 1      MEN$GT_File_Default    = $ASCIC ('') : VECTOR [,BYTE];
; 0190 1 xSBTTL 'CRD MENU Functional Test Initialization Routine'
; 0191 1
; 0192 1 GLOBAL ROUTINE MEN$Menu_FncTst_Init (DSA_Extract)=
; 0193 1
; 0194 1 !+
; 0195 1 ! FUNCTIONAL DESCRIPTION:
; 0196 1 !
; 0197 1 ! Initialization for CRD MENU TEST Functional Testing. Should be called
; 0198 1 ! when CRD MENU TEST is invoked.
; 0199 1 !
; 0200 1 ! . Initializes CRD MENU TEST Flags
; 0201 1 ! . Initializes MENU Tables
; 0202 1 ! . Creates DDB database
; 0203 1 ! . Allocates Memory for Test Queue Tables
; 0204 1 ! . Determines CRD MENU TEST Hardware Support
; 0205 1 ! . Creates Hardware Support Tables for supported hardware
; 0206 1 !
; 0207 1 ! Input:
; 0208 1 !   DSA_Extract - this is a longword value passed from CRDINTRFC
; 0209 1 !
; 0210 1 ! OUTPUT PARAMETERS
; 0211 1 !
; 0212 1 ! IMPLICIT INPUTS
; 0213 1 !
; 0214 1 ! It is expected that VDS P-Tables exist prior to this
; 0215 1 ! routine call representing system hardware.
; 0216 1 !
; 0217 1 ! The Functional Test ASCII Support File resides on load media.
; 0218 1 !
; 0219 1 ! SIDE EFFECTS
; 0220 1 !

```

ZZ-ENSAB-2.0 CRD MENU Functional Test Initialization Routine 19-Sep-1985 Fiche 8 Frame C10 Sequence 1561
MENTSTINI CRD MENU - Test Initialization 19-Sep-1985 17:23:34 VAX-11 Bliss-32 V4.1-746 Page 5
V01.4 CRD MENU Functional Test Initialization Routine 19-Sep-1985 12:33:27 [DS.CRD.V020]MENTSTINI.B32;1 (1)

```
: 0221 1 ! Fatal Failures during this routine may cause CRD MENU TEST
: 0222 1 ! to abort by calling CRD$STOP. Therefore, a return may never
: 0223 1 ! be made to the caller.
: 0224 1 !
: 0225 1 ! COMPLETION CODES
: 0226 1 !
: 0227 1 ! CRD$K_Success Success
: 0228 1 ! CRD$K_Failure Failure
: 0229 1 ! History:
: 0230 1 !
: 0231 1 ! 01 --- ?-???-?? Created routine
: 0232 1 ! 02 rwp 3-Oct-84 Modified to handle CRD online condition
: 0233 1 ! --
```



```

0234 1
: 0235 2 BEGIN
: 0236 2   IF (.CRD$GB_CRD_Debug) THEN
: 0237 2   $CRD_Print ($ASCIC ('MEN$FncTst_Init: Starting the Menu Test Initialization!/'));
: 0238 2
: 0239 2   CODECOMMENT
: 0240 2   ..
: 0241 2   'Initialize flags'.
: 0242 2   ..
: 0243 3 BEGIN
: 0244 3 MEN$GB_FncTst_Init = False; ! Indicate that Initialization has not been completed
: 0245 2 END;
: 0246 2
: 0247 2   CODECOMMENT
: 0248 2   ..
: 0249 2   'Initialize things common to both Auto Test and Menu Test'.
: 0250 2   ..
: 0251 3 BEGIN
: 0252 3 CRD$Common_Initializations (MEN$CntIC_Menu);
: 0253 3   ! Pass the address of the Menu Test's ^C handler routine.
: 0254 3 DSA$V_Binary = On; ! Turn these two on after the initializations are done.
: 0255 3   ! Leave them on for the duration of CRD Menu Test. [01]
: 0256 3 SELECTONE .DSA_Extract OF
: 0257 3   SET
: 0258 3   [ 2 ] : DSA$V_CRD_MenuTest_Off = On;
: 0259 3   [ 4 ] : DSA$V_CRD_Menutest_On = On;
: 0260 3   [ OTHERWISE ] : CRD$Stop (MENU$K_Exit_Internal_Error);
: 0261 3   TES;
: 0262 2 END;
: 0263 2
: 0264 2   CODECOMMENT
: 0265 2   ..
: 0266 2   'Initialize Menu tables.'.
: 0267 2   'Since the CRD MENU TEST control code is a loadable image.'.
: 0268 2   'link-time resolved address pointers must have an offset'.
: 0269 2   'added to them. This is because the address pointers are'.
: 0270 2   'resolved at link time with reference to a zero base address'.
: 0271 2   'However, at run time, the code will be loaded at an'.
: 0272 2   'address starting at CRD$AL_CRD_Dispatch_Vectors. Therefore.'.
: 0273 2   'for all tables with text address pointers, add an offset'.
: 0274 2   'equal to the address of CRD$AL_CRD_Dispatch_Vectors.'.
: 0275 3 BEGIN
: 0276 3 !+
: 0277 3 ! Initialize Address Pointers for the Functional Test Menu Table
: 0278 3 !-
: 0279 3
: 0280 3 MEN$FTMTbl_Init ();
: 0281 3
: 0282 3 !+
: 0283 3 ! Initialize Address Pointers for the Device Test Preparation Table
: 0284 3 !
: 0285 3
: 0286 3 MEN$PrepTbl_Init ();
: 0287 3
: 0288 3 !+

```

```

: 0289 3 ! Initialize Address Pointers for the Control C Initialization Menu Table
: 0290 3 !-
: 0291 3
: 0292 3 MENS$CntICInit_Tbl_Init ();
: 0293 3
: 0294 3 !+
: 0295 3 ! Initialize Address Pointers for the Control C Menu Table
: 0296 3 !-
: 0297 3
: 0298 3 MENS$Cntlc_Tbl_Init ();
: 0299 2 END;
: 0300 2
: 0301 2 CODECOMMENT
: 0302 2 ..
: 0303 2 'Initialize the General Commands Table',
: 0304 2 'and the Menu State tables:',
: 0305 2 ..
: 0306 3 BEGIN
: 0307 3 CRD$GB_Current_State_Table = MENS$K_MM_State_Table;
: 0308 3 ! Start out with the Main Menu State Table
: 0309 3 CRD$Init_General_Com_Table (); ! Initialize the General Command Table
: 0310 3 MENS$Init_MM_State_Table (); ! Init the Main Menu State Table
: 0311 3 MENS$Init_TQ_State_Table (); ! Init the Test Queue State Table
: 0312 3 MENS$Init_HS_State_Table (); ! Init the Hardware Support State Table
: 0313 2 END;
: 0314 2
: 0315 2 CODECOMMENT
: 0316 2 ..
: 0317 2 'Initialization complete',
: 0318 2 ..
: 0319 3 BEGIN
: 0320 3 DSA$V_Binary = On; ! Turn these two on after the initializations are done.
: 0321 3 SELECTONE .DSA_Extract OF
: 0322 3 SET
: 0323 3 [ 2 ] : DSA$V_CRD_MenuTest_Off = On;
: 0324 3 [ 4 ] : DSA$V_CRD_Menutest_On = On;
: 0325 3 [ OTHERWISE ] : CRD$Stop (MENU$K_Exit_Internal_Error);
: 0326 3 TES;
: 0327 2 END;
: 0328 2
: 0329 2 IF (.CRD$GB_CRD_Debug) THEN
: 0330 2 $CRD_Print ($ASCIC ('MENS$FncTst_Init: All done the Menu Test Initialization!/'));
: 0331 2
: 0332 2 RETURN (CRD$K_Success); ! The initialization succeeded
: 0333 1 END; ! Routine MENS$Menu_FncTst_Init

```

```

.TITLE MENTSTINI CRD MENU - Test Initialization
.IDENT \V01.4\

```

```

.PSECT WORK,NOEXE,2

```

```

00000000 00000000 00000 MENS$GA_DDB_HEAD::
.LONG 0,0 ;
00000000 00000000 00000000 00000000 00008 MENS$GA_FUNCSUP_DATABASE::

```

```

    .LONG      0, 0, 0, 0
    00000000  00000000  00000000  00018 MEN$GA_TEST_QUEUE::
    .LONG      0, 0, 0
    00 00024 MEN$GB_FNCTST_INIT::
    .BYTE      0
    00 00025 MEN$GB_TEST_IN_PROGRESS::
    .BYTE      0
    00026 .BLKB  2
    00028 A_MENFUNCSUP_FILE:
    .BLKB      8
    00030 A_FILE_DEFAULT:
    .BLKB      8

    .PSECT DATA,NOWRT,NOEXE, SHR,2

    49 4E 49 54 53 54 4E 45 4D 09 00000 P.AAA: .ASCII <9>\MENTSTINI\ ;
    50 55 53 2E 41 41 4C 4E 45 09 0000A P.AAB: .ASCII <9>\ENLAA.SUP\ ;
    00 00014 P.AAC: .ASCII <0> ;
    69 6E 49 5F 74 73 54 63 6E 46 24 4E 45 4D 38 00015 P.AAD: .ASCII \8MEN$FncTst_Init: Starting the Menu Test\ ;
    65 68 74 20 67 6E 69 74 72 61 74 53 20 3A 74 00024 ;
    74 73 65 54 20 75 6E 65 4D 20 00033 ;
    6E 6F 69 74 61 7A 69 6C 61 69 74 69 6E 49 20 0003D .ASCII \ Initialization!\ ;
    2F 21 0004C ;
    69 6E 49 5F 74 73 54 63 6E 46 24 4E 45 4D 38 0004E P.AAE: .ASCII \8MEN$FncTst_Init: All done the Menu Test\ ;
    65 68 74 20 65 6E 6F 64 20 6C 6C 41 20 3A 74 0005D ;
    74 73 65 54 20 75 6E 65 4D 20 0006C ;
    6E 6F 69 74 61 7A 69 6C 61 69 74 69 6E 49 20 00076 .ASCII \ Initialization!\ ;
    2F 21 00085 ;
  
```

```

$MODULE= P.AAA
DSASAL_APTMAIL= 65024
DSASGL_FLAGS= 65024
DSASGL_APTCOM= 65028
DSASGL_PASSES= 65032
DSASGL_UNITS= 65036
DSASGL_SECTNO= 65040
DSASGL_SID= 65044
DSASGL_MSGTYP= 65088
DSASGL_ERRNO= 65092
DSASGL_EVENT= 65096
DSASGL_SUBTNO= 65100
DSASGL_TESTNO= 65104
DSASGL_PASSNO= 65108
DSASGL_DEVLEN= 65112
DSASGL_DEVNAM= 65116
DSASGL_MSGPTR= 65128
MEN$GT_MENFUNCSUP_FILE==
P.AAB
MEN$GT_FILE_DEFAULT==
P.AAC
.EXTRN MEN$MENU_FNCTST_INIT
.EXTRN MEN$BUILD_DDB, MEN$DETERMINE_SUPPORT
.EXTRN MEN$SPECIFY_SELECTNO
.EXTRN MEN$ALLOCATE_MEMORY
.EXTRN MEN$LOAD_FILE, MEN$FIND_SUPBLK
  
```

```

.EXTRN MEN$DUMP_TSTQ_HST
.EXTRN MEN$MENU_CLEANUP
.EXTRN MEN$MENU_TEST_INTERNAL_ERROR
.EXTRN CRD$STOP, CRD$GB_CRD_DEBUG
.EXTRN CRD$PRINT, CRD$COMMON_INITIALIZATIONS
.EXTRN MEN$CNTLC_MENU, MEN$FTMTBL_INIT
.EXTRN MEN$PREPTBL_INIT
.EXTRN MEN$CNTLCINIT_TBL_INIT
.EXTRN MEN$CNTLC_TBL_INIT
.EXTRN CRD$GB_CURRENT_STATE_TABLE
.EXTRN CRD$INIT_GENERAL_COM_TABLE
.EXTRN MEN$INIT_MM_STATE_TABLE
.EXTRN MEN$INIT_TQ_STATE_TABLE
.EXTRN MEN$INIT_HS_STATE_TABLE
  
```

.PSECT CODE, NOWRT, SHR, PIC, 2

```

      0000 00000 .ENTRY MEN$MENU_FNCTST_INIT, Save nothing      ; 0192
      11 00000000G EF E9 00002 BLBC CRD$GB_CRD_DEBUG, 1$      ; 0236
00000000' EF 9F 00009 PUSHAB P.AAD ; 0237
      01 DD 0000F PUSHL #1 ;
      1A DD 00011 PUSHL #26 ;
00000000G FF 03 FB 00013 CALLS #3, @CRD$PRINT ;
  
```

; Initialize flags

```

00000000' EF 94 0001A 1$: CLRB MEN$GB_FNCTST_INIT ; 0244
  
```

; Initialize things common to both Auto Test and Menu Test

```

00000000G EF 9F 00020 PUSHAB MEN$CNTLC_MENU ; 0252
00000000G EF 01 FB 00026 CALLS #1, CRD$COMMON_INITIALIZATIONS ;
0000FE00 9F 02 88 0002D BISB2 #2, @#^X0000FE00 ; 0254
      50 04 AC D0 00034 MOVL DSA_EXTRACT, R0 ; 0256
      02 50 D1 00038 CMPL R0, #2 ; 0258
      09 12 0003B BNEQ 2$ ;
0000FE02 9F 01 88 0003D BISB2 #1, @#^X0000FE02 ;
      17 11 00044 BRB 4$ ;
      04 50 D1 00046 2$: CMPL R0, #4 ; 0259
      09 12 00049 BNEQ 3$ ;
0000FE02 9F 04 88 0004B BISB2 #4, @#^X0000FE02 ;
      09 11 00052 BRB 4$ ;
      0D DD 00054 3$: PUSHL #13 ; 0260
00000000G EF 01 FB 00056 CALLS #1, CRD$STOP ;
  
```

; Initialize Menu tables.

; Since the CRD MENU TEST control code is a loadable image,
 ; link-time resolved address pointers must have an offset
 ; added to them. This is because the address pointers are
 ; resolved at link time with reference to a zero base address
 ; However, at run time, the code will be loaded at an
 ; address starting at CRD\$AL_CRD_Dispatch_Vectors. Therefore,
 ; for all tables with text address pointers, add an offset
 ; equal to the address of CRD\$AL_CRD_Dispatch_Vectors.

```

00000000G EF 00 FB 0005D 4$: CALLS #0, MEN$FTMTBL_INIT ; 0280
  
```

```

00000000G EF 00 FB 00064 CALLS #0, MEN$PREPTBL_INIT ; 0286
00000000G EF 00 FB 0006B CALLS #0, MEN$CNTLCINIT_TBL_INIT ; 0292
00000000G EF 00 FB 00072 CALLS #0, MEN$CNTLC_TBL_INIT ; 0298
;
; Initialize the General Commands Table
; and the Menu State tables:
;
00000000G EF 94 00079 CLRB CRD$GB_CURRENT_STATE_TABLE ; 0307
00000000G EF 00 FB 0007F CALLS #0, CRD$INIT_GENERAL_COM_TABLE ; 0309
00000000G EF 00 FB 00086 CALLS #0, MEN$INIT_MM_STATE_TABLE ; 0310
00000000G EF 00 FB 0008D CALLS #0, MEN$INIT_TQ_STATE_TABLE ; 0311
00000000G EF 00 FB 00094 CALLS #0, MEN$INIT_HS_STATE_TABLE ; 0312
;
; Initialization complete
;
0000FE00 9F 02 88 0009B BISB2 #2, a#^X0000FE00 ; 0320
50 04 AC D0 000A2 MOVL DSA_EXTRACT, R0 ; 0321
02 50 D1 000A6 CMPL R0, #2 ; 0323
09 12 000A9 BNEQ 5$ ;
0000FE02 9F 01 88 000AB BISB2 #1, a#^X0000FE02 ;
17 11 000B2 BRB 7$ ;
04 50 D1 000B4 5$: CMPL R0, #4 ; 0324
09 12 000B7 BNEQ 6$ ;
0000FE02 9F 04 88 000B9 BISB2 #4, a#^X0000FE02 ;
09 11 000C0 BRB 7$ ;
0D DD 000C2 6$: PUSHL #13 ; 0325
00000000G EF 01 FB 000C4 CALLS #1, CRD$STOP ;
11 00000000G EF E9 000CB 7$: BLBC CRD$GB_CRD_DEBUG, 8$ ; 0329
00000000' EF 9F 000D2 PUSHAB P.AAE ; 0330
01 DD 000D8 PUSHL #1 ;
1A DD 000DA PUSHL #26 ;
00000000G FF 03 FB 000DC CALLS #3, aCRD$PRINT ;
50 01 D0 000E3 8$: MOVL #1, R0 ; 0332
04 000E6 RET ; 0333

```

; Routine Size: 231 bytes, Routine Base: CODE + 0000

```

; 0334 1 %SBTTL 'MEN$Build_DDB - Build DDB Database Routine'
; 0335 1
; 0336 1 GLOBAL ROUTINE MEN$Build_DDB =
; 0337 1
; 0338 1 !+
; 0339 1 ! FUNCTIONAL DESCRIPTION:
; 0340 1 !
; 0341 1 !     Creates DDB database.    One DDB is built for each VDS P-Table.
; 0342 1 !
; 0343 1 ! INPUT PARAMETERS
; 0344 1 !
; 0345 1 ! OUTPUT PARAMETERS
; 0346 1 !
; 0347 1 ! IMPLICIT INPUTS
; 0348 1 !
; 0349 1 !     VDS P-Tables exist pointed to by address pointer located in CRD$GA_PTable
; 0350 1 !

```

```

: 0351 1 ! EXPLICIT OUTPUTS
: 0352 1 !
: 0353 1 ! Circular doubly-linked queue list of DDB's.
: 0354 1 !
: 0355 1 ! SIDE EFFECTS
: 0356 1 !
: 0357 1 ! On error this routine aborts CRD MENU by calling CRD$Stop.
: 0358 1 !
: 0359 1 ! COMPLETION CODES
: 0360 1 !
: 0361 1 !--
: 0362 2 BEGIN
: 0363 2 LOCAL
: 0364 2 DDB_Ptr : REF Device_Data_Block_Structure,
: 0365 2 TstQ_Size,
: 0366 2 DDB_Size;
: 0367 2
: 0368 2 REGISTER
: 0369 2 DDB_TstQ_Tbl_Entries,
: 0370 2 DDB_Count,
: 0371 2 PTable_Table_Index,
: 0372 2 PTable;
: 0373 2
: 0374 2 BIND
: 0375 2 Numb_PTable_Entries = (.CRD$GA_PTable),
: 0376 2 PTable_Table = (.CRD$GA_PTable+4) : VECTOR [ ,LONG];
: 0377 2
: 0378 2 IF (.CRD$GB_CRD_Debug) THEN
: 0379 2 $CRD_Print ($ASCII ('MEN$Build_DDB: Starting to build the DDBs!/' ));
: 0380 2
: 0381 2 !+
: 0382 2 ! Initialize the DDB Queue
: 0383 2 !-
: 0384 2
: 0385 2 MEN$GA_DDB_Head [Queue$L_Flink] = MEN$GA_DDB_Head;
: 0386 2 MEN$GA_DDB_Head [Queue$L_Blink] = MEN$GA_DDB_Head;
: 0387 2
: 0388 2 !+
: 0389 2 ! Get a valid VDS P-Table entry and build a DDB.
: 0390 2 ! Start at the last P-Table entry and work backwards
: 0391 2 !-
: 0392 2
: 0393 2 DDB_Count = 0;
: 0394 2 PTable_Table_Index = .Numb_PTable_Entries ;
: 0395 2
: 0396 2 WHILE ((PTable_Table_Index = .PTable_Table_Index-1) GEQ 0) DO
: 0397 3 BEGIN
: 0398 3 PTable = .PTable_Table [.PTable_Table_Index];
: 0399 3
: 0400 3 IF .PTable NEQ 0
: 0401 3 THEN
: 0402 4 BEGIN
: 0403 5 IF (NOT MEN$Allocate_Memory (%REF(CRD$K_DDB_Last_Entry*4), DDB_Ptr, DDB_Size))
: 0404 4 THEN
: 0405 4 Internal_Error_Exit (CRD$K_Allocation_Error, (CRD$K_DDB_Last_Entry * 4), .DDB_Size, .DDB_Ptr);

```

```

: 0406 4
: 0407 4     INSQUE (.DDB_Ptr, .MEN$GA_DDB_Head [Queue$L_Blink]);
: 0408 4     DDB_Ptr [CRD$K_DDB_PTable_Entry] = .PTable;
: 0409 4     DDB_Ptr [CRD$K_DDB_Memory_Size] = .DDB_Size;
: 0410 4     DDB_Count = .DDB_Count + 1;
: 0411 3     END;
: 0412 2 END;
: 0413 2
: 0414 2     !+
: 0415 2     ! Allocate enough memory for DDB Test Queue pointer table
: 0416 2     !-
: 0417 2
: 0418 2     DDB_TstQ_Tbl_Entries = .DDB_Count + 1;
: 0419 2     ! Create one more entry for a null DDB pointer
: 0420 2
: 0421 3     IF (NOT MEN$ALLOCATE_Memory (%REF (.DDB_TstQ_Tbl_Entries * 4),
: 0422 3         MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr],
: 0423 3         TstQ_Size))
: 0424 2     THEN
: P 0425 2     Internal_Error_Exit (CRD$K_Allocation_Error, (.DDB_TstQ_Tbl_Entries * 4),
: 0426 2         .TstQ_Size, .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]);
: 0427 2
: 0428 2     MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries] = (.TstQ_Size/4);
: 0429 2     ! number of longword entries
: 0430 2
: 0431 2     MEN$GA_Test_Queue [MEN$V_TQ_Table_Size] = .TstQ_Size;
: 0432 2     ! Size in bytes of allocated memory for table
: 0433 2
: 0434 2     IF (.CRD$GB_CRD_Debug) THEN
: 0435 2     $CRD_Print ($ASCII ('MEN$Build_DDB: Done building the DDBs!/' ));
: 0436 2
: 0437 2     RETURN (CRD$K_Success);
: 0438 1 END;
    
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

3A 42 44 44 5F 64 6C 69 75 42 24 4E 45 4D 2B 00087 P.AAF: .ASCII \+MEN$Build_DDB: Starting to build the DD\ ;
75 62 20 6F 74 20 67 6E 69 74 72 61 74 53 20 00096 ;
    44 44 20 65 68 74 20 64 6C 69 000A5 ;
    2F 21 73 42 000AF .ASCII \Bs!/\ ;
3A 42 44 44 5F 64 6C 69 75 42 24 4E 45 4D 27 000B3 P.AAG: .ASCII \'MEN$Build_DDB: Done building the DDBs!/\ ;
20 67 6E 69 64 6C 69 75 62 20 65 6E 6F 44 20 000C2 ;
    2F 21 73 42 44 44 20 65 68 74 000D1 ;
    
```

.EXTRN CRD\$GA_PTABLE

.PSECT CODE,NOWRT, SHR, PIC,2

```

    003C 00000 .ENTRY MEN$BUILD_DDB, Save R2,R3,R4,R5 ; 0336
5E 10 C2 00002 SUBL2 #16, SP ;
53 00000000G EF D0 00005 MOVL CRD$GA_PTABLE, R3 ; 0375
55 00000000G EF 04 C1 0000C ADDL3 #4, CRD$GA_PTABLE, R5 ; 0376
11 00000000G EF E9 00014 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0378
    
```

```

00000000' EF 9F 0001B PUSHAB P.AAF ; 0379
01 DD 00021 PUSHL #1 ;
1A DD 00023 PUSHL #26 ;
00000000G FF 03 FB 00025 CALLS #3, aCRD$PRINT ;
00000000' EF 00000000' EF 9E 0002C 1$: MOVAB MEN$GA_DDB_HEAD, MEN$GA_DDB_HEAD ; 0385
00000000' EF 00000000' EF 9E 00037 MOVAB MEN$GA_DDB_HEAD, MEN$GA_DDB_HEAD+4 ; 0386
52 D4 00042 CLRL DDB_COUNT ; 0393
53 63 D0 00044 MOVL (R3), PTABLE_TABLE_INDEX ; 0394
4F 11 00047 BRB 4$ ; 0396
54 6543 D0 00049 2$: MOVL (R5)[PTABLE_TABLE_INDEX], PTABLE ; 0398
49 13 0004D BEQL 4$ ; 0400
04 AE 9F 0004F PUSHAB DDB_SIZE ; 0403
0C AE 9F 00052 PUSHAB DDB_PTR ;
08 AE 2C D0 00055 MOVL #44, 8(SP) ;
08 AE 9F 00059 PUSHAB 8(SP) ;
00000000V EF 03 FB 0005C CALLS #3, MEN$ALLOCATE_MEMORY ;
1B 50 E8 00063 BLBS R0, 3$ ;
08 AE DD 00066 PUSHL DDB_PTR ; 0405
08 AE DD 00069 PUSHL DDB_SIZE ;
2C DD 0006C PUSHL #44 ;
7E 01 CE 0006E MNEGL #1, -(SP) ;
00000000G EF 04 FB 00071 CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
0D DD 00078 PUSHL #13 ;
00000000G EF 01 FB 0007A CALLS #1, CRD$STOP ;
00000000' FF 08 BE 0E 00081 3$: INSQUE @DDB_PTR, @MEN$GA_DDB_HEAD+4 ; 0407
50 08 AE D0 00089 MOVL DDB_PTR, R0 ; 0408
08 A0 54 D0 0008D MOVL PTABLE, 8(R0) ;
24 A0 04 AE D0 00091 MOVL DDB_SIZE, 36(R0) ; 0409
52 D6 00096 INCL DDB_COUNT ; 0410
AE 53 F4 00098 4$: SOBGEQ PTABLE_TABLE_INDEX, 2$ ; 0396
50 01 A2 9E 0009B MOVAB 1(R2), DDB_TSTQ_TBL_ENTRIES ; 0418
0C AE 9F 0009F PUSHAB TSTQ_SIZE ; 0421
00000000' EF 9F 000A2 PUSHAB MEN$GA_TEST_QUEUE+4 ; 0422
52 50 02 78 000A8 ASHL #2, DDB_TSTQ_TBL_ENTRIES, R2 ; 0421
08 AE 52 D0 000AC MOVL R2, 8(SP) ;
08 AE 9F 000B0 PUSHAB 8(SP) ;
00000000V EF 03 FB 000B3 CALLS #3, MEN$ALLOCATE_MEMORY ;
1E 50 E8 000BA BLBS R0, 5$ ;
00000000' EF DD 000BD PUSHL MEN$GA_TEST_QUEUE+4 ; 0426
10 AE DD 000C3 PUSHL TSTQ_SIZE ;
52 DD 000C6 PUSHL R2 ;
7E 01 CE 000C8 MNEGL #1, -(SP) ;
00000000G EF 04 FB 000CB CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
0D DD 000D2 PUSHL #13 ;
00000000G EF 01 FB 000D4 CALLS #1, CRD$STOP ;
00000000' EF 0C AE 04 C7 000DB 5$: DIVL3 #4, TSTQ_SIZE, MEN$GA_TEST_QUEUE ; 0428
00000000' EF 0C AE D0 000E4 MOVL TSTQ_SIZE, MEN$GA_TEST_QUEUE+8 ; 0431
11 00000000G EF E9 000EC BLBC CRD$GB_CRD_DEBUG, 6$ ; 0434
00000000' EF 9F 000F3 PUSHAB P.AAG ; 0435
01 DD 000F9 PUSHL #1 ;
1A DD 000FB PUSHL #26 ;
00000000G FF 03 FB 000FD CALLS #3, aCRD$PRINT ;
50 01 D0 00104 6$: MOVL #1, R0 ; 0437
04 00107 RET ; 0438

```


; Routine Size: 264 bytes, Routine Base: CODE + 00E7

```

; 0439 1 %SBTTL 'MEN$Determine_Support Routine'
; 0440 1
; 0441 1 GLOBAL ROUTINE MEN$Determine_Support =
; 0442 1
; 0443 1 !*
; 0444 1 ! FUNCTIONAL DESCRIPTION:
; 0445 1 !
; 0446 1 !   Loads the support database file into memory and for each DDB
; 0447 1 !   searches the support database for a support block. If a support block
; 0448 1 !   is found then hardware support tables are created.
; 0449 1 !
; 0450 1 ! INPUT PARAMETERS
; 0451 1 !
; 0452 1 ! OUTPUT PARAMETERS
; 0453 1 !
; 0454 1 ! IMPLICIT INPUTS
; 0455 1 !
; 0456 1 ! EXPLICIT OUTPUTS
; 0457 1 !
; 0458 1 ! SIDE EFFECTS
; 0459 1 !
; 0460 1 !   On error this routine aborts CRD MENU by calling CRD$Stop.
; 0461 1 !
; 0462 1 ! COMPLETION CODES
; 0463 1 !
; 0464 1 !   CRD$K_Success
; 0465 1 !--
; 0466 2 BEGIN
; 0467 2   LOCAL
; 0468 2   SupBlk_Ptr : REF $MEN_SupBlk_ATTR;
; 0469 2
; 0470 2   REGISTER
; 0471 2   DataBase_ID : REF $MEN_DBaseID_ATTR,
; 0472 2   Device_Name_Ptr,
; 0473 2   DDB_Ptr : REF Device_Data_Block_Structure,
; 0474 2   PTable_Ptr : REF $DS_HPO_DECL ();
; 0475 2
; 0476 2   IF (.CRD$GB_CRD_Debug) THEN
; 0477 2   $CRD_Print ($ASCII ('MEN$Determine_Support: Starting to determine the Hardware Support!/'));
; 0478 2
; 0479 2   !*
; 0480 2   ! Build filename ASCII's
; 0481 2   !-
; 0482 2
; 0483 2   A_MenFuncSup_File [DSC$W_Length] = .MEN$GT_MenFuncSup_File [0];
; 0484 2   A_MenFuncSup_File [DSC$A_Pointer] = MEN$GT_MenFuncSup_File [1];
; 0485 2
; 0486 2   A_File_Default [DSC$W_Length] = .MEN$GT_File_Default [0];
; 0487 2   A_File_Default [DSC$A_Pointer] = MEN$GT_File_Default [1];
; 0488 2
; 0489 2   !*
; 0490 2   ! Load Support File database into memory and initialize support

```

```

: 0491 2 ! database descriptor
: 0492 2 !-
: 0493 2
: 0494 2 MEN$Load_File (A_MenFuncSup_File,
: 0495 2   A_File_Default,
: 0496 2   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Size],
: 0497 2   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Start],
: 0498 2   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Total_Siz]);
: 0499 2
: 0500 2 DataBase_ID = .MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Start];
: 0501 2 ! Point to the loaded database Identification
: 0502 2 ! block
: 0503 2
: 0504 2 MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Ptr] =
: 0505 2 ((.DataBase_ID * 4) + (.DataBase_ID [DBaseID$L_Size] * 4));
: 0506 2 ! Point to the first device support block
: 0507 2
: 0508 2 !+
: 0509 2 ! For each DDB search for a device support block in the
: 0510 2 ! support database
: 0511 2 !-
: 0512 2
: 0513 2 DDB_Ptr = MEN$GA_DDB_Head;
: 0514 2
: 0515 2 WHILE ((DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink]) NEQ MEN$GA_DDB_Head) DO
: 0516 3 BEGIN
: 0517 3 PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 0518 3 Device_Name_Ptr = PTable_Ptr [HP$T_Type];
: 0519 3
: 0520 3 !+
: 0521 3 ! If a support block exists then load DDB info.
: 0522 3 !-
: 0523 3
: 0524 4 IF (MEN$Find_SupBlk (MEN$GA_FuncSup_DatBase,
: 0525 4   .Device_Name_Ptr,
: 0526 4   SupBlk_Ptr))
: 0527 3 THEN
: 0528 4 BEGIN
: 0529 4   DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr] = .SupBlk_Ptr;
: 0530 4
: 0531 4 !+
: 0532 4 ! Create Hardware Support Table for the device
: 0533 4 !-
: 0534 4
: 0535 5 IF (NOT Create_HST (.DDB_Ptr))
: 0536 4 THEN
: 0537 4   Internal_Error_Exit (CRD$K_Create_HST, 0, 0, .DDB_Ptr);
: 0538 3 END;
: 0539 2 END;
: 0540 2
: 0541 2 IF (.CRD$GB_CRD_Debug) THEN
: 0542 2 $CRD_Print ($ASCIC ('MEN$Determine_Support: Done determining the Hardware Support!/'));
: 0543 2
: 0544 2 RETURN (CRD$K_Success);
: 0545 1 END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

5F 65 6E 69 6D 72 65 74 65 44 24 4E 45 4D 43 000DB P.AAH: .ASCII \CMEN$Determine_Support: Starting to dete\ ;
69 74 72 61 74 53 20 3A 74 72 6F 70 70 75 53 000EA ;
    65 74 65 64 20 6F 74 20 67 6E 000F9 ;
77 64 72 61 48 20 65 68 74 20 65 6E 69 6D 72 00103 .ASCII \rmine the Hardware Support!\ ;
2F 21 74 72 6F 70 70 75 53 20 65 72 61 00112 ;
5F 65 6E 69 6D 72 65 74 65 44 24 4E 45 4D 3E 0011F P.AAI: .ASCII \>MEN$Determine_Support: Done determining\ ;
64 20 65 6E 6F 44 20 3A 74 72 6F 70 70 75 53 0012E ;
    67 6E 69 6E 69 6D 72 65 74 65 0013D ;
53 20 65 72 61 77 64 72 61 48 20 65 68 74 20 00147 .ASCII \ the Hardware Support!\ ;
    2F 21 74 72 6F 70 70 75 00156 ;
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

    001C 00000 .ENTRY MEN$DETERMINE_SUPPORT, Save R2,R3,R4 ; 0441
5E 04 C2 00002 SUBL2 #4, SP ;
11 00000000G EF E9 00005 BLBC CRD$GB_CRD_DEBUG, 1$ ; 0476
00000000' EF 9F 0000C PUSHAB P.AAH ; 0477
01 DD 00012 PUSHL #1 ;
1A DD 00014 PUSHL #26 ;
00000000G FF 03 FB 00016 CALLS #3, @CRD$PRINT ;
00000000' EF 00000000' EF 9B 0001D 1$: MOVZBW MEN$GT_MENFUNCSUP_FILE, A_MENFUNCSUP_FILE ; 0483
00000000' EF 00000000' EF 9E 00028 MOVAB MEN$GT_MENFUNCSUP_FILE+1, - ; 0484
    A_MENFUNCSUP_FILE+4 ;
00000000' EF 00000000' EF 9B 00033 MOVZBW MEN$GT_FILE_DEFAULT, A_FILE_DEFAULT ; 0486
00000000' EF 00000000' EF 9E 0003E MOVAB MEN$GT_FILE_DEFAULT+1, A_FILE_DEFAULT+4 ; 0487
00000000' EF 9F 00049 PUSHAB MEN$GA_FUNCSUP_DATABASE+8 ; 0498
00000000' EF 9F 0004F PUSHAB MEN$GA_FUNCSUP_DATABASE+12 ; 0497
00000000' EF 9F 00055 PUSHAB MEN$GA_FUNCSUP_DATABASE ; 0496
00000000' EF 9F 0005B PUSHAB A_FILE_DEFAULT ; 0494
00000000' EF 9F 00061 PUSHAB A_MENFUNCSUP_FILE ;
00000000V EF 05 FB 00067 CALLS #5, MEN$LOAD_FILE ;
50 00000000' EF D0 0006E MOVL MEN$GA_FUNCSUP_DATABASE+12, DATABASE_ID ; 0500
51 60 D0 00075 MOVL (DATABASE_ID), R1 ; 0505
00000000' EF 04 A041 DE 00078 MOVAL 4(DATABASE_ID)[R1], MEN$GA_FUNCSUP_DATABASE+4 ;
53 00000000' EF 9E 00081 MOVAB MEN$GA_DDB_HEAD, DDB_PTR ; 0513
43 11 00088 BRB 3$ ; 0515
54 08 A3 D0 0008A 2$: MOVL 8(DDB_PTR), PTABLE_PTR ; 0517
52 26 A4 9E 0008E MOVAB 38(R4), DEVICE_NAME_PTR ; 0518
4004 8F BB 00092 PUSHR #^M<R2,SP> ; 0525
00000000' EF 9F 00096 PUSHAB MEN$GA_FUNCSUP_DATABASE ; 0524
00000000V EF 03 FB 0009C CALLS #3, MEN$FIND_SUPBLK ;
27 50 E9 000A3 BLBC R0, 3$ ;
20 A3 6E D0 000A6 MOVL SUPBLK_PTR, 32(DDB_PTR) ; 0529
53 DD 000AA PUSHL DDB_PTR ; 0535
00000000V EF 01 FB 000AC CALLS #1, CREATE_HST ;
17 50 E8 000B3 BLBS R0, 3$ ;
53 DD 000B6 PUSHL DDB_PTR ; 0537
7E 7C 000B8 CLRQ -(SP) ;
  
```

```

    7E    0B CE 000BA MNEGL #11, -(SP)
00000000G EF 04 FB 000BD CALLS #4, MEN$MENU_TEST_INTERNAL_ERROR ;
    0D DD 000C4 PUSHL #13 ;
00000000G EF 01 FB 000C6 CALLS #1, CRD$STOP ;
    53    63 D0 000CD 3$: MOVL (DDB_PTR), DDB_PTR ; 0515
    50 00000000' EF 9E 000D0 MOVAB MEN$GA_DDB_HEAD, R0 ;
    50    53 D1 000D7 CMPL DDB_PTR, R0 ;
    AE 12 000DA BNEQ 2$ ;
    11 00000000G EF E9 000DC BLBC CRD$GB_CRD_DEBUG, 4$ ; 0541
00000000' EF 9F 000E3 PUSHAB P.AAI ; 0542
    01 DD 000E9 PUSHL #1 ;
    1A DD 000EB PUSHL #26 ;
00000000G FF 03 FB 000ED CALLS #3, aCRD$PRINT ;
    50    01 D0 000F4 4$: MOVL #1, R0 ; 0544
    04 000F7 RET ; 0545
  
```

; Routine Size: 248 bytes. Routine Base: CODE + 01EF

```

; 0546 1 xSBTTL 'Create_HST Routine'
; 0547 1
; 0548 1 ROUTINE Create_HST ( I_DDB ) =
; 0549 1
; 0550 1 !*
; 0551 1 ! FUNCTIONAL DESCRIPTION:
; 0552 1 !
; 0553 1 ! For the DDB specified create Hardware Support Table(s). One Hardware
; 0554 1 ! Support Table is built for each Diagnostic Block found in the DDB's Support
; 0555 1 ! Block.
; 0556 1 !
; 0557 1 ! INPUT PARAMETERS
; 0558 1 !
; 0559 1 ! I_DDB Address of DDB
; 0560 1 !
; 0561 1 ! OUTPUT PARAMETERS
; 0562 1 !
; 0563 1 ! IMPLICIT INPUTS
; 0564 1 !
; 0565 1 ! The DDB points to a support block
; 0566 1 !
; 0567 1 ! EXPLICIT OUTPUTS
; 0568 1 !
; 0569 1 ! The DDB shall point to one or more concatenated Hardware Support Tables.
; 0570 1 ! SIDE EFFECTS
; 0571 1 !
; 0572 1 !
; 0573 1 ! COMPLETION CODES
; 0574 1 !
; 0575 1 ! CRD$K_Success
; 0576 1 ! CRD$K_Failure
; 0577 1 ! --
; 0578 2 BEGIN
; 0579 2 LOCAL
; 0580 2 HST_Size,
; 0581 2 HST_Ptr : REF VECTOR [, LONG];
  
```

```

: 0582 2
: 0583 2 REGISTER
: 0584 2 Record_No,
: 0585 2 Record_Cnt,
: 0586 2 Record_Ptr : REF VECTOR [, BYTE],
: 0587 2
: 0588 2 DiagBlk_No,
: 0589 2 DiagBlk_Index,
: 0590 2 DiagBlk_Ptr : REF $MEN_DiagBlk_ATTR,
: 0591 2
: 0592 2 TstCnfg_Ptr : REF $MEN_TstCnfg_ATTR,
: 0593 2 SupBlk_Ptr : REF $MEN_SupBlk_ATTR,
: 0594 2 DDB_Ptr : REF Device_Data_Block_Structure;
: 0595 2
: 0596 2 BIND
: 0597 2 DDB = .I_DDB;
: 0598 2
: 0599 2 DDB_Ptr = DDB; ! Point to DDB
: 0600 2 SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr];
: 0601 2 ! Point to the support block
: 0602 2
: 0603 2 TstCnfg_Ptr = SupBlk_Ptr [SupBlk$B_StrtFrst_CnfgBlk];
: 0604 2 ! Point to the first configuration block
: 0605 2
: 0606 2 DiagBlk_No = (.TstCnfg_Ptr [TstCnfg$B_DiagBlk_No]) ;
: 0607 2 ! Specify number of diagnostic blocks
: 0608 2
: 0609 2 !+
: 0610 2 ! Allocate memory space for Hardware Support Table. The memory space
: 0611 2 ! should accomodate 1 or more concatenated HST's
: 0612 2 !-
: 0613 2
: 0614 3 IF (NOT MEN$Allocate_Memory (%REF (CRD$K_Last_Entry * 4 * .DiagBlk_No), HST_Ptr, HST_Size))
: 0615 2 THEN
: 0616 2 RETURN (CRD$K_Failure);
: 0617 2
: 0618 2 DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] = .HST_Ptr;
: 0619 2 ! Point to Hardware Support Table
: 0620 2
: 0621 2 DDB_Ptr [CRD$K_DDB_Menu_Support_Size] = .HST_Size;
: 0622 2 ! Size in bytes of allocated memory
: 0623 2
: 0624 2 DDB_Ptr [CRD$K_DDB_Numb_Support_Tables] = .TstCnfg_Ptr [TstCnfg$B_DiagBlk_No];
: 0625 2 ! Specify the number of concatenated
: 0626 2 ! Hardware Support Tables to be built
: 0627 2
: 0628 2 !+
: 0629 2 ! Setup for creating Hardware Support Table from Diagnostic Block
: 0630 2 ! information
: 0631 2 !-
: 0632 2
: 0633 2 DiagBlk_No = (.TstCnfg_Ptr [TstCnfg$B_DiagBlk_No]) ;
: 0634 2 ! Specify number of diagnostic blocks
: 0635 2
: 0636 2 DiagBlk_Index = - 1; ! Set up the Diagnostic Block index

```

```

: 0637 2
: 0638 2   DiagBlk_Ptr = TstCnfg_Ptr [TstCnfg$B_StrtFrst_DiagBlk];
: 0639 2   ! Point to the first diagnostic block
: 0640 2
: 0641 2   !+
: 0642 2   ! Start loading Hardware Support Blocks
: 0643 2   ! *** NOTE ***
: 0644 2   ! The sequence of loading ASCIC record pointer information into
: 0645 2   ! each Hardware Support Table
: 0646 2   ! must duplicate the sequence in which the information
: 0647 2   ! is found in the Diagnostic Block. Also the number of times the
: 0648 2   ! record pointer is updated must equal the number of records in the Diagnostic
: 0649 2   ! Block in order to correctly sequence through the Diagnostic Blocks.
: 0650 2   !-
: 0651 2
: 0652 2   WHILE ( (DiagBlk_Index = .DiagBlk_Index + 1) LSS .DiagBlk_No ) DO
: 0653 3   BEGIN
: 0654 3   Record_Cnt = 0;
: 0655 3   Record_No = .DiagBlk_Ptr [DiagBlk$W_Record_No];
: 0656 3   ! Number of records in Diagnostic Block
: 0657 3   Record_Ptr = DiagBlk_Ptr [DiagBlk$B_Frst_Record];
: 0658 3
: 0659 3   !+
: 0660 3   ! load Diagnostic Image Name
: 0661 3   !-
: 0662 3
: 0663 3   HST_Ptr [CRD$K_L_agnostic_Name] = .Record_Ptr;
: 0664 3   Record_Ptr = .Record_Ptr [0] + Record_Ptr [1];
: 0665 3   Record_Cnt = .Record_Cnt + 1;
: 0666 3
: 0667 3   !+
: 0668 3   ! load VDS SET FLAGS command arguments ASCIC pointer
: 0669 3   !-
: 0670 3
: 0671 3   HST_Ptr [CRD$K_Set_Flags_Args] = .Record_Ptr;
: 0672 3   Record_Ptr = .Record_Ptr [0] + Record_Ptr [1];
: 0673 3   Record_Cnt = .Record_Cnt + 1;
: 0674 3
: 0675 3   !+
: 0676 3   ! load VDS SET EVENT command arguments ASCIC pointer
: 0677 3   !-
: 0678 3
: 0679 3   HST_Ptr [CRD$K_Set_Event_Args] = .Record_Ptr;
: 0680 3   Record_Ptr = .Record_Ptr [0] + Record_Ptr [1];
: 0681 3   Record_Cnt = .Record_Cnt + 1;
: 0682 3
: 0683 3   !+
: 0684 3   ! load VDS START command qualifiers ASCIC pointer
: 0685 3   !-
: 0686 3
: 0687 3   HST_Ptr [CRD$K_Start_Qualifiers] = .Record_Ptr;
: 0688 3   Record_Ptr = .Record_Ptr [0] + Record_Ptr [1];
: 0689 3   Record_Cnt = .Record_Cnt + 1;
: 0690 3
: 0691 3   !+

```

```

00FC 00000 CREATE HST:
WORD Save R2,R3,R4,R5,R6,R7 ; 0548
5E 0C C2 00002 SUBL2 #12, SP ;
54 04 AC D0 00005 MOVL I_DDB, DDB_PTR ; 0599
50 20 A4 D0 00009 MOVL 32(DDB_PTR), SUPBLK_PTR ; 0600
52 17 A0 9E 0000D MOVAB 23(R0), TSTCNFG_PTR ; 0603
53 01 A2 9A 00011 MOVZBL 1(TSTCNFG_PTR), DIAGBLK_NO ; 0606
04 AE 9F 00015 PUSHAB HST_SIZE ; 0614
0C AE 9F 00018 PUSHAB HST_PTR ;
08 AE 53 05 78 0001B ASHL #5, DIAGBLK_NO, 8(SP) ;
08 AE 9F 00020 PUSHAB 8(SP) ;
00000000V EF 03 FB 00023 CALLS #3, MEN$ALLOCATE_MEMORY ;
03 50 E8 0002A BLBS R0, 1$ ;
0091 31 0002D BRW 4$ ;
10 A4 08 AE D0 00030 1$: MOVL HST_PTR, 16(DDB_PTR) ; 0618
28 A4 04 AE D0 00035 MOVL HST_SIZE, 40(DDB_PTR) ; 0621
18 A4 01 A2 9A 0003A MOVZBL 1(TSTCNFG_PTR), 24(DDB_PTR) ; 0624
53 01 A2 9A 0003F MOVZBL 1(TSTCNFG_PTR), DIAGBLK_NO ; 0633
54 01 CE 00043 MNEGL #1, DIAGBLK_INDEX ; 0636
55 04 A2 9E 00046 MOVAB 4(R2), DIAGBLK_PTR ; 0638
6A 11 0004A BRB 3$ ; 0652
51 D4 0004C 2$: CLRL RECORD_CNT ; 0654
50 65 3C 0004E MOVZWL (DIAGBLK_PTR), RECORD_NO ; 0655
52 02 A5 9E 00051 MOVAB 2(R5), RECORD_PTR ; 0657
56 08 AE D0 00055 MOVL HST_PTR, R6 ; 0663
66 52 D0 00059 MOVL RECORD_PTR, (R6) ;

```

```

      57      62 9A 0005C  MOVZBL (RECORD_PTR), R7      ; 0664
      57      52 C0 0005F  ADDL2 RECORD_PTR, R7      ;
      52 01      A7 9E 00062  MOVAB 1(R7), RECORD_PTR      ;
      04      A6      52 D0 00066  MOVL RECORD_PTR, 4(R6)      ; 0671
      57      62 9A 0006A  MOVZBL (RECORD_PTR), R7      ; 0672
      57      52 C0 0006D  ADDL2 RECORD_PTR, R7      ;
      52 01      A7 9E 00070  MOVAB 1(R7), RECORD_PTR      ;
      08      A6      52 D0 00074  MOVL RECORD_PTR, 8(R6)      ; 0679
      57      62 9A 00078  MOVZBL (RECORD_PTR), R7      ; 0680
      57      52 C0 0007B  ADDL2 RECORD_PTR, R7      ;
      52 01      A7 9E 0007E  MOVAB 1(R7), RECORD_PTR      ;
      10      A6      52 D0 00082  MOVL RECORD_PTR, 16(R6)      ; 0687
      57      62 9A 00086  MOVZBL (RECORD_PTR), R7      ; 0688
      57      52 C0 00089  ADDL2 RECORD_PTR, R7      ;
      52 01      A7 9E 0008C  MOVAB 1(R7), RECORD_PTR      ;
      14      A6      52 D0 00090  MOVL RECORD_PTR, 20(R6)      ; 0695
      57      62 9A 00094  MOVZBL (RECORD_PTR), R7      ; 0696
      57      52 C0 00097  ADDL2 RECORD_PTR, R7      ;
      52 01      A7 9E 0009A  MOVAB 1(R7), RECORD_PTR      ;
      18      A6      52 D0 0009E  MOVL RECORD_PTR, 24(R6)      ; 0703
      56      62 9A 000A2  MOVZBL (RECORD_PTR), R6      ; 0704
      56      52 C0 000A5  ADDL2 RECORD_PTR, R6      ;
      52 01      A6 9E 000A8  MOVAB 1(R6), RECORD_PTR      ;
      51      06 C0 000AC  ADDL2 #6, RECORD_CNT      ; 0705
      55      52 D0 000AF  MOVL RECORD_PTR, DIAGBLK_PTR      ; 0707
      08      AE      20 C0 000B2  ADDL2 #32, HST_PTR      ; 0709
      54      D6 000B6 3$: INCL DIAGBLK_INDEX      ; 0652
      53      54 D1 000B8  CMPL DIAGBLK_INDEX, DIAGBLK_NO      ;
      8F      19 000BB      BLSS 2$      ;
      50      01 D0 000BD  MOVL #1, R0      ; 0714
      04 000C0      RET      ;
      50      D4 000C1 4$: CLRL R0      ; 0715
      04 000C3      RET      ;
  
```

; Routine Size: 196 bytes, Routine Base: CODE + 02E7

```

; 0716 1 %SBTTL 'MEN$Specify_SelectNo Routine'
; 0717 1
; 0718 1 GLOBAL ROUTINE MEN$Specify_SelectNo =
; 0719 1
; 0720 1 !*
; 0721 1 ! FUNCTIONAL DESCRIPTION:
; 0722 1 !
; 0723 1 ! INPUT PARAMETERS
; 0724 1 !
; 0725 1 ! OUTPUT PARAMETERS
; 0726 1 !
; 0727 1 ! IMPLICIT INPUTS
; 0728 1 !
; 0729 1 ! EXPLICIT OUTPUTS
; 0730 1 !
; 0731 1 ! SIDE EFFECTS
; 0732 1 !
; 0733 1 ! COMPLETION CODES
  
```


ZZ-ENSAB-2.0 MEN\$Specify_SelectNo Routine G 11
MENTSTINI CRD MENU - Test Initialization 19-Sep-1985 17:23:34 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame G11 Sequence 1578
V01.4 MEN\$Specify_SelectNo Routine 19-Sep-1985 12:33:27 [DS.CRD.V020]MENTSTINI.B32;1 Page 22 (2)

: 0734 1 !
: 0735 1 !--

```

: 0736 1
: 0737 2 BEGIN
: 0738 2 ROUTINE SelectNo_Class ( R_TEST_CLASS) : NOVALUE =
: 0739 3 BEGIN
: 0740 3 LOCAL
: 0741 3   SupBlk_Ptr : REF $MEN_Supblk_ATTR;
: 0742 3
: 0743 3 LOCAL
: 0744 3   Select_No_Index,
: 0745 3   DDB_Ptr : REF Device_Data_Block_Structure,
: 0746 3   PTable_Ptr : REF $DS_HPO_DECL ();
: 0747 3
: 0748 3 BIND
: 0749 3   Test_Class = .R_TEST_CLASS,
: 0750 3   Support_Database = MEN$GA_FuncSup_DatBase : $MEN_FuncSup_DatBase_ATTR;
: 0751 3
: 0752 3 !+
: 0753 3 ! For each DDB of the specified Device Test Class, specify a
: 0754 3 ! unique Device Select Number
: 0755 3 !-
: 0756 3
: 0757 3 Select_No_Index = MEN$K_SelDev_Numb_Start;
: 0758 3 DDB_Ptr = MEN$GA_DDB_Head;
: 0759 3 WHILE ((DDB_Ptr = .DDB_Ptr [CRD$K_DDB_Flink]) NEQ MEN$GA_DDB_Head) DO
: 0760 4 BEGIN
: 0761 4   PTable_Ptr = .DDB_Ptr [CRD$K_DDB_PTable_Entry];
: 0762 4   SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr];
: 0763 5   IF (.SupBlk_Ptr NEQ 0)
: 0764 4   THEN
: 0765 5     BEGIN
: 0766 6       IF (.SupBlk_Ptr [SupBlk$B_Test_Class] EQL .Test_Class)
: 0767 5       THEN
: 0768 6         BEGIN
: 0769 6           DDB_Ptr [CRD$K_DDB_Menu_Device_Numb] = .Select_No_Index;
: 0770 6           Select_No_Index = .Select_No_Index + 1;
: 0771 5         END;
: 0772 4       END;
: 0773 3     END;
: 0774 2 END; ! Routine SelectNo_Class
  
```

SUPPORT_DATABASE= MEN\$GA_FUNCUP_DATABASE

```

001C 00000 SELECTNO_CLASS:
WORD Save R2,R3,R4 ; 0738
53 01 D0 00002 MOVL #1, SELECT_NO_INDEX ; 0757
50 00000000' EF 9E 00005 MOVAB MEN$GA_DDB_HEAD, DDB_PTR ; 0758
17 11 0000C BRB 2$ ; 0759
54 08 A0 D0 0000E 1$ MOVL 8(DDB_PTR), PTABLE_PTR ; 0761
52 20 A0 D0 00012 MOVL 32(DDB_PTR), SUPBLK_PTR ; 0762
0D 13 00016 BEQL 2$ ; 0763
04 BC 11 A2 08 00 ED 00018 CMPZV #0, #8, 17(SUPBLK_PTR), @R_TEST_CLASS ; 0766
04 12 0001F BNEQ 2$ ;
  
```

```

1C  A0      83  9E 00021  MOVAB (SELECT_NO_INDEX)+, 28(DDB_PTR) ; 0769
    50      60  D0 00025  2$:  MOVL (DDB_PTR), DDB_PTR ; 0759
    51 00000000' EF 9E 00028  MOVAB MEN$GA_DDB_HEAD, R1 ;
    51      50  D1 0002F  CMPL DDB_PTR, R1 ;
    DA 12 00032  BNEQ 1$ ;
    04 00034  RET ; 0774
  
```

; Routine Size: 53 bytes, Routine Base: CODE + 03AB

```

; 0775 2
; 0776 2 SelectNo_Class ( xREF(MEN$K_TstCla_CPU));
; 0777 2 SelectNo_Class ( xREF(MEN$K_TstCla_Memory));
; 0778 2 SelectNo_Class ( xREF(MEN$K_TstCla_Disk));
; 0779 2 SelectNo_Class ( xREF(MEN$K_TstCla_Tape));
; 0780 2 SelectNo_Class ( xREF(MEN$K_TstCla_Comm));
; 0781 2 SelectNo_Class ( xREF(MEN$K_TstCla_Real));
; 0782 2 SelectNo_Class ( xREF(MEN$K_TstCla_Term));
; 0783 2 SelectNo_Class ( xREF(MEN$K_TstCla_Printer));
; 0784 2 SelectNo_Class ( xREF(MEN$K_TstCla_Card));
; 0785 2 SelectNo_Class ( xREF(MEN$K_TstCla_IO_Adaptor));
; 0786 2
; 0787 2 RETURN (CRD$K_Success);
; 0788 1 END; ! Routine MEN$Specify_SelectNo
  
```

```

    0000 00000 .ENTRY MEN$SPECIFY_SELECTNO, Save nothing ; 0718
C1 01 DD 00002  PUSHL #1 ; 0776
    SE DD 00004  PUSHL SP ;
    AF 01 FB 00006  CALLS #1, SELECTNO_CLASS ;
    6E 02 D0 0000A  MOVL #2, (SP) ; 0777
    SE DD 0000D  PUSHL SP ;
B8 AF 01 FB 0000F  CALLS #1, SELECTNO_CLASS ;
    6E 03 D0 00013  MOVL #3, (SP) ; 0778
    SE DD 00016  PUSHL SP ;
AF AF 01 FB 00018  CALLS #1, SELECTNO_CLASS ;
    6E 04 D0 0001C  MOVL #4, (SP) ; 0779
    SE DD 0001F  PUSHL SP ;
A6 AF 01 FB 00021  CALLS #1, SELECTNO_CLASS ;
    6E 05 D0 00025  MOVL #5, (SP) ; 0780
    SE DD 00028  PUSHL SP ;
9D AF 01 FB 0002A  CALLS #1, SELECTNO_CLASS ;
    6E 06 D0 0002E  MOVL #6, (SP) ; 0781
    SE DD 00031  PUSHL SP ;
94 AF 01 FB 00033  CALLS #1, SELECTNO_CLASS ;
    6E 07 D0 00037  MOVL #7, (SP) ; 0782
    SE DD 0003A  PUSHL SP ;
B8 AF 01 FB 0003C  CALLS #1, SELECTNO_CLASS ;
    6E 08 D0 00040  MOVL #8, (SP) ; 0783
    SE DD 00043  PUSHL SP ;
82 AF 01 FB 00045  CALLS #1, SELECTNO_CLASS ;
    6E 09 D0 00049  MOVL #9, (SP) ; 0784
  
```

```

FF78 SE DD 0004C PUSHL SP ;
CF 01 FB 0004E CALLS #1, SELECTNO_CLASS ;
6E 0A DO 00053 MOVL #10, (SP) ; 0785 ;
SE DD 00056 PUSHL SP ;
FF6E CF 01 FB 00058 CALLS #1, SELECTNO_CLASS ;
50 01 DO 0005D MOVL #1, R0 ; 0787 ;
04 00060 RET ; 0788
  
```

; Routine Size: 97 bytes, Routine Base: CODE + 03E0

```

; 0789 1 xSBTTL 'MEN$Allocate_Memory Routine'
; 0790 1
; 0791 1 GLOBAL ROUTINE MEN$Allocate_Memory (R_SIZE, I_ADDRESS, I_RETSize) =
; 0792 1
; 0793 1 !*
; 0794 1 ! FUNCTIONAL DESCRIPTION:
; 0795 1 !
; 0796 1 !   Allocates specified amount of memory from VDS Non-Paged Pool and
; 0797 1 !   initializes the space with zero's.
; 0798 1 !
; 0799 1 ! INPUT PARAMETERS
; 0800 1 !
; 0801 1 !   R_SIZE   Address location containing size in bytes of memory space requested
; 0802 1 !
; 0803 1 ! OUTPUT PARAMETERS
; 0804 1 !
; 0805 1 !   I_ADDRESS Address location to return address pointer to start
; 0806 1 !   of allocated memory
; 0807 1 !   I_RETSize Address location to return size in bytes of allocated memory
; 0808 1 !
; 0809 1 ! IMPLICIT INPUTS
; 0810 1 !
; 0811 1 ! EXPLICIT OUTPUTS
; 0812 1 !
; 0813 1 ! SIDE EFFECTS
; 0814 1 !
; 0815 1 !   On error a message is printed
; 0816 1 !
; 0817 1 ! COMPLETION CODES
; 0818 1 !
; 0819 1 !   CRD$K_Success
; 0820 1 !   CRD$K_Failure
; 0821 1 ! --
; 0822 2 BEGIN
; 0823 2   LOCAL
; 0824 2   Returned_Size, ! The size returned by the allocation routine
; 0825 2   Returned_Address; ! The address returned by the allocation routine
; 0826 2
; 0827 2   BIND ROUTINE
; 0828 2   CRD$Allocate_Memory = (.CRD$Exe$AloNonPaged) : JSB_Alloc;
; 0829 2   ! Get past the indirection
; 0830 2
; 0831 2   BIND
; 0832 2   Size = .R_SIZE,
  
```

```

; 0833 2 Address = .I_ADDRESS,
; 0834 2 RetSize = .I_RETSIZE;
; 0835 2
; 0836 3 IF (NOT (CRD$Allocate_Memory (.Size; Returned_Size, Returned_Address)))
; 0837 2 THEN
; 0838 3 BEGIN
; 0839 3 $CRD_Message (New_Line, MEN$GT_NoAll_NonPgMem);
; 0840 3 RETURN (CRD$K_Failure);
; 0841 3 END
; 0842 2 ELSE
; 0843 3 BEGIN
; 0844 3 CH$FILL (0, .Returned_Size, .Returned_Address);
; 0845 3 Address = .Returned_Address;
; 0846 3 RetSize = .Returned_Size;
; 0847 2 END;
; 0848 2
; 0849 2 IF (.CRD$GB_CRD_Debug) THEN
; P 0850 2 $CRD_Print ($ASCII ('MEN$Allocate_Memory: Address: !XL(X), Size: !XL(X)!/' ),
; 0851 2 .Returned_Address, .Returned_Size);
; 0852 2
; 0853 2 RETURN (CRD$K_Success);
; 0854 1 END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

4D 5F 65 74 61 63 6F 6C 6C 41 24 4E 45 4D 34 0015E P.AAJ: .ASCII \4MEN$Allocate_Memory: Address: !XL(X), S\ ;
3A 73 73 65 72 64 64 41 20 3A 79 72 6F 6D 65 0016D ;
;
2F 53 20 2C 29 58 28 4C 58 21 20 0017C ;
2F 21 29 58 28 4C 58 21 20 3A 65 7A 69 00186 .ASCII \ize: !XL(X)!/\ ;

```

```

.EXTRN CRD$EXE$ALONONPAGED
.EXTRN MEN$GT_NOALL_NONPGMEM
.EXTRN CRD$GT_NEW_LINE_MESSAGE

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

OFFC 0000 .ENTRY MEN$ALLOCATE_MEMORY, Save R2,R3,R4,R5,R6,- ; 0791
R7,R8,R9,R10,R11
51 04 BC D0 00002 MOVL aR_SIZE, R1 ; 0836
00000000G FF 16 00006 JSB aCRD$EXE$ALONONPAGED ;
57 51 D0 0000C MOVL R1, R7 ;
56 52 D0 0000F MOVL R2, R6 ;
24 50 E8 00012 BLBS R0, 1$ ;
00000000G EF 9F 00015 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 0839
01 DD 0001B PUSHL #1 ;
1A DD 0001D PUSHL #26 ;
00000000G FF 03 FB 0001F CALLS #3, aCRD$PRINT ;
00000000G EF 9F 00026 PUSHAB MEN$GT_NOALL_NONPGMEM ;
01 DD 0002C PUSHL #1 ;
1A DD 0002E PUSHL #26 ;
00000000G FF 03 FB 00030 CALLS #3, aCRD$PRINT ;
2D 11 00037 BRB 3$ ; 0840
57 00 6E 00 2C 00039 1$: MOVC5 #0, (SP), #0, RETURNED_SIZE, - ; 0844

```

```

    66      0003E      (RETURNED_ADDRESS)
08 BC      56 DO 0003F      MOVL      RETURNED_ADDRESS, @I_ADDRESS      ; 0845
0C BC      57 DO 00043      MOVL      RETURNED_SIZE, @I_RETSIZE      ; 0846
    14 00000000G EF E9 00047      BLBC      CRD$GB CRD_DEBUG, 2$      ; 0849
    7E      56 7D 0004E      MOVQ      RETURNED_ADDRESS, -(SP)      ; 0851
    00000000' EF 9F 00051      PUSHAB      P.AAJ      ;
    01 DD 00057      PUSHL      #1      ;
    1A DD 00059      PUSHL      #26      ;
    00000000G FF      05 FB 0005B      CALLS      #5, @CRD$PRINT      ;
    50      01 DO 00062 2$:      MOVL      #1, R0      ; 0853
    04 00065      RET      ;
    50 D4 00066 3$:      CLRL      R0      ; 0854
    04 00068      RET      ;
  
```

; Routine Size: 105 bytes, Routine Base: CODE + 0441

```

; 0855 1 xSBTTL 'MEN$Load_File Routine'
; 0856 1
; 0857 1 GLOBAL ROUTINE MEN$Load_File (R_FILE, R_FILE_DEFAULT, I_SIZE, I_ADDRESS, I_MEMSIZE)=
; 0858 1
; 0859 1 !+
; 0860 1 ! FUNCTIONAL DESCRIPTION:
; 0861 1 !
; 0862 1 !     Loads specified file image into memory.
; 0863 1 !
; 0864 1 ! INPUT PARAMETERS
; 0865 1 !
; 0866 1 !     R_FILE Address of File Name ASCID
; 0867 1 !     R_FILE_DEFAULT Address of default File name ASCID
; 0868 1 !
; 0869 1 ! OUTPUT PARAMETERS
; 0870 1 !
; 0871 1 !     I_SIZE Address location to return size in bytes of
; 0872 1 !     loaded file
; 0873 1 !     I_ADDRESS Address location to receive address pointer to
; 0874 1 !     start of loaded file
; 0875 1 !     I_MEMSIZE Address location to return size in bytes of allocated
; 0876 1 !     memory space for file
; 0877 1 !
; 0878 1 ! IMPLICIT INPUTS
; 0879 1 !
; 0880 1 ! EXPLICIT OUTPUTS
; 0881 1 !
; 0882 1 ! SIDE EFFECTS
; 0883 1 !
; 0884 1 !     If file load error a message is printed.
; 0885 1 !
; 0886 1 ! COMPLETION CODES
; 0887 1 !
; 0888 1 !     CRD$K_Success File loaded successfully
; 0889 1 !     CRD$K_Failure Error in file load
; 0890 1 ! --
  
```

```

; 0891 1
; 0892 2 BEGIN
; 0893 2   LOCAL
; 0894 2   Status,
; 0895 2   File_Attributes,
; 0896 2   fab : $fab (),      ! FAB for file access [04]
; 0897 2   xab : $xabfhc ();   ! XAB for file access [04]
; 0898 2
; 0899 2
; P 0900 2 $fab_init (fab = fab, fna = (.r_file+4), fns = (.r_file),
; P 0901 2   dna = (.r_file_default+4), dns = (.r_file_default),
; 0902 2   xab = xab, fac = <get,bio>); ![04]
; 0903 2
; 0904 2 if not (status = $open (fab = fab)) then Load_Error_Exit (.status); ![04]
; 0905 2
; 0906 2 $close (fab = fab);      ![04]
; 0907 2
; 0908 2 .I_Size = (.xab [xab$I_ebk]^9 + .xab [xab$w_ffb] - 512); ![04]
; 0909 2
; 0910 2   file_attributes <0, 16, 0> = .fab [fab$w_mrs];    ![04]
; 0911 2   file_attributes <16, 8, 0> = .fab [fab$b_rfm];
; 0912 2   file_attributes <24, 8, 0> = .fab [fab$b_fsz];
; 0913 2
; 0914 2
; 0915 3   IF (NOT MEN$Allocate_Memory (.I_Size, .I_Address, .I_MemSize)) ![04]
; 0916 2   THEN
; 0917 2   Internal_Error_Exit (CRD$K_Allocation_Error, (.I_Size), (.I_MemSize), (.I_Address));
; 0918 2
; P 0919 2   Status = $DS_LOAD (
; P 0920 2   File =      .R_file,
; P 0921 2   Default =  .R_file_Default,
; P 0922 2   Length =   (.I_Size),
; P 0923 2   Address =  (.I_Address),
; P 0924 2   RetLen =   .I_Size,
; P 0925 2   RetRec =   File_Attributes
; 0926 2   );
; 0927 3   IF (NOT .Status)
; 0928 2   THEN
; 0929 2   Load_Error_Exit (.Status);
; 0930 2
; 0931 2   RETURN (CRD$K_Success);
; 0932 1 END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

00193 .BLKB 1
03 00194 P.AAK: .BYTE 3 ;
50 00195 .BYTE 80 ;
0000 00196 .WORD 0 ;
00000000 00198 .LONG 0 ;
00000000 0019C .LONG 0 ;
00000000 001A0 .LONG 0 ;
00000000 001A4 .LONG 0 ;

```

```

0000 001A8 .WORD 0 ;
02 001AA .BYTE 2 ;
00 001AB .BYTE 0 ;
00000000 001AC .LONG 0 ;
00 001B0 .BYTE 0 ;
00 001B1 .BYTE 0 ;
00 001B2 .BYTE 0 ;
02 001B3 .BYTE 2 ;
00000000 001B4 .LONG 0 ;
00000000 001B8 .LONG 0 ;
00000000 001BC .LONG 0 ;
00000000 001C0 .LONG 0 ;
00000000 001C4 .LONG 0 ;
00 001C8 .BYTE 0 ;
00 001C9 .BYTE 0 ;
0000 001CA .WORD 0 ;
00000000 001CC .LONG 0 ;
0000 001D0 .WORD 0 ;
00 001D2 .BYTE 0 ;
00 001D3 .BYTE 0 ;
00000000 001D4 .LONG 0 ;
00000000 001D8 .LONG 0 ;
0000 001DC .WORD 0 ;
00 001DE .BYTE 0 ;
00 001DF .BYTE 0 ;
00000000 001E0 .LONG 0 ;
1D 001E4 P.AAL: .BYTE 29 ;
2C 001E5 .BYTE 44 ;
0000 001E6 .WORD 0 ;
00000000 001E8 .LONG 0 ;
00000000# 001EC .LONG 0[9] ;

```

```

.EXTRN SYS$OPEN, SYS$CLOSE
.EXTRN DS$LOAD

```

```

.PSECT CODE, NOWRT, SHR, PIC, 2

```

```

003C 00000 .ENTRY MEN$LOAD_FILE, Save R2,R3,R4,R5 ; 0857
SE 80 AE 9E 00002 MOVAB -128(SP), SP ;
30 AE 00000000' EF 0050 8F 28 00006 MOV C3 #80, P.AAK, FAB ; 0896
04 AE 00000000' EF 2C 28 00011 MOV C3 #44, P.AAL, XAB ; 0897
0050 8F 00 6E 00 2C 0001A MOV C5 #0, (SP), #0, #80, $RMS_PTR ; 0902
30 AE 00021 ;
30 AE 5003 8F B0 00023 MOVW #20483, $RMS_PTR ;
46 AE 22 90 00029 MOV B #34, $RMS_PTR+22 ;
4F AE 02 90 0002D MOV B #2, $RMS_PTR+31 ;
54 AE 04 AE 9E 00031 MOVAB XAB, $RMS_PTR+36 ;
55 04 AC D0 00036 MOVL R_FILE, R5 ;
5C AE 04 A5 D0 0003A MOVL 4(R5), $RMS_PTR+44 ;
54 08 AC D0 0003F MOVL R_FILE_DEFAULT, R4 ;
60 AE 04 A4 D0 00043 MOVL 4(R4), $RMS_PTR+48 ;
64 AE 65 90 00048 MOV B (R5), $RMS_PTR+52 ;
65 AE 64 90 0004C MOV B (R4), $RMS_PTR+53 ;
30 AE 9F 00050 PUSHAB FAB ; 0904
00000000G 00 01 FB 00053 CALLS #1, SYS$OPEN ;

```



```

    53      50 DO 0005A   MOVL   R0, STATUS      ;
    16      53 EB 0005D   BLBS   STATUS, 3$      ;
00018292  8F      53 D1 00060   CMPL   STATUS, #98962      ;
    04      12 00067       BNEQ   1$           ;
    0F      DD 00069       PUSHL   #15          ;
    02      11 00068       BRB     2$           ;
    10      DD 0006D 1$:   PUSHL   #16          ;
00000000G  EF      01 FB 0006F 2$:   CALLS   #1, CRD$STOP      ;
    30      AE 9F 00076 3$:   PUSHAB  FAB      ; 0906
00000000G  00      01 FB 00079   CALLS   #1, SYS$CLOSE      ;
    52      0C AC DO 00080   MOVL   I_SIZE, R2      ; 0908
    50      14 AE      09 78 00084   ASHL   #9, XAB+16, R0      ;
    51      18 AE 3C 00089   MOVZWL  XAB+20, R1      ;
    62      FE00 C140 9E 0008D   MOVAB  -512(R1)(R0), (R2)      ;
    6E      66 AE B0 00093   MOVW    FAB+54, FILE_ATTRIBUTES      ; 0910
    02      AE 4F AE 90 00097   MOVB    FAB+31, FILE_ATTRIBUTES+2      ; 0911
    03      AE 6F AE 90 0009C   MOVB    FAB+63, FILE_ATTRIBUTES+3      ; 0912
    7E      10 AC 7D 000A1   MOVQ    I_ADDRESS, -(SP)      ; 0915
    52      DD 000A5       PUSHL   R2           ;
FEEB      CF      03 FB 000A7   CALLS   #3, MEN$ALLOCATE_MEMORY      ;
    1B      50 EB 000AC   BLBS    R0, 4$      ;
    10      BC DD 000AF       PUSHL   @I_ADDRESS      ; 0917
    14      BC DD 000B2       PUSHL   @I_MEMSIZE      ;
    62      DD 000B5       PUSHL   (R2)          ;
    7E      01 CE 000B7   MNEGL   #1, -(SP)      ;
00000000G  EF      04 FB 000BA   CALLS   #4, MEN$MENU_TEST_INTERNAL_ERROR      ;
    0D      DD 000C1       PUSHL   #13          ;
00000000G  EF      01 FB 000C3   CALLS   #1, CRD$STOP      ;
    01      DD 000CA 4$:   PUSHL   #1           ; 0926
    04      AE 9F 000CC       PUSHAB  FILE_ATTRIBUTES      ;
    52      DD 000CF       PUSHL   R2           ;
    10      BC DD 000D1       PUSHL   @I_ADDRESS      ;
    62      DD 000D4       PUSHL   (R2)          ;
    54      DD 000D6       PUSHL   R4           ;
    55      DD 000D8       PUSHL   R5           ;
00000000G  9F      07 FB 000DA   CALLS   #7, @DS$LOAD      ;
    53      50 DO 000E1   MOVL   R0, STATUS      ;
    16      53 EB 000E4   BLBS   STATUS, 7$      ; 0927
00018292  8F      53 D1 000E7   CMPL   STATUS, #98962      ; 0929
    04      12 000EE       BNEQ   5$           ;
    0F      DD 000F0       PUSHL   #15          ;
    02      11 000F2       BRB     6$           ;
    10      DD 000F4 5$:   PUSHL   #16          ;
00000000G  EF      01 FB 000F6 6$:   CALLS   #1, CRD$STOP      ;
    50      01 DO 000FD 7$:   MOVL   #1, R0      ; 0931
    04      00100   RET      ; 0932
  
```

; Routine Size: 257 bytes, Routine Base: CODE + 04AA

```

; 0933 1 %SBTTL 'MEN$Find_SupBlk Routine'
; 0934 1
; 0935 1 GLOBAL ROUTINE MEN$Find_SupBlk (R_DATABASE, I_DEVNAM, I_SUPPORT_BLK) -
; 0936 1
; 0937 1 !+
  
```

```
: 0938 1 : FUNCTIONAL DESCRIPTION:
: 0939 1 :
: 0940 1 :     Searches for a support block denoted by a device name in the
: 0941 1 :     database memory area specified. The support block must be valid
: 0942 1 :     (SupBlk$V_Status_Invalid = False).
: 0943 1 :
: 0944 1 : INPUT PARAMETERS
: 0945 1 :
: 0946 1 :     R_DATABASE Address of 2-longword array pointing to database
: 0947 1 :     [0] = Size in bytes of database
: 0948 1 :     [1] = Address pointer to start of database
: 0949 1 :     I_DEVNAME Address of device name ASCII
: 0950 1 :
: 0951 1 : OUTPUT PARAMETERS
: 0952 1 :
: 0953 1 :     I_SUPPORT_BLK Address to receive the address pointer of the
: 0954 1 :     support block
: 0955 1 :
: 0956 1 : COMPLETION CODES
: 0957 1 :
: 0958 1 : CRD$K_Success Support Block Found
: 0959 1 : CRD$K_Failure Support Block Not Found. The support block
: 0960 1 :     for the device may not exist or it may exist
: 0961 1 :     but is considered invalid if the SupBlk$V_Status_Invalid
: 0962 1 :     bit is true.
: 0963 1 : --
: 0964 2 BEGIN
: 0965 2     LOCAL
: 0966 2     SupBlk_Ptr : REF $MEN SupBlk_ATTR,
: 0967 2     SupBlk_Found,
: 0968 2     End_of_Database;
: 0969 2
: 0970 2     BIND
: 0971 2     Database      = .R_DATABASE : VECTOR [2, LONG],
: 0972 2     Devnam        = .I_Devnam   : VECTOR [, BYTE],
: 0973 2     Support_Blks = .I_Support_Blks;
: 0974 2
: 0975 2     SupBlk_Found      = False;
: 0976 2     End_of_Database = .DataBase [0] + .DataBase [1];
: 0977 2     SupBlk_Ptr       = .DataBase [1];
```

```

: 0978 2 WHILE ((.SupBlk_Ptr LSS .End_of_DataBase) AND (NOT .SupBlk_Found)) DO
: 0979 3 BEGIN
: 0980 3 IF CH$EQL
: 0981 3 ! . . Compare device strings
: 0982 3 (
: 0983 3 .Devnam [0],
: 0984 3 Devnam [1],
: 0985 3 (.SupBlk_Ptr [SupBlk$T_Device_Name])<0,8>,
: 0986 3 (SupBlk_Ptr [SupBlk$T_Device_Name]) + 1,
: 0987 3 xC'
: 0988 3 )
: 0989 3 AND
: 0990 3 ! . Check for validity of block
: 0991 4 (NOT .SupBlk_Ptr [SupBlk$V_Status_Invalid])
: 0992 3 AND
: 0993 3 ! . Check that in correct mode, on/off line, and correct diag level
: 0994 4 (
: 0995 5 (
: 0996 6 (.SupBlk_Ptr[SupBlk$W_Level] EQL '2 ') ! [03]
: 0997 5 AND ! [03]
: 0998 6 (.DSA$V_CRD_Menutest_ON) ! [03]
: 0999 5 )
: 1000 4 OR ! [03]
: 1001 5 (
: 1002 6 (.SupBlk_Ptr[SupBlk$W_Level] EQL '2R') ! [03]
: 1003 5 AND ! [03]
: 1004 6 (.DSA$V_CRD_Menutest_ON) ! [03]
: 1005 5 )
: 1006 4 OR ! [03]
: 1007 5 (
: 1008 6 (.SupBlk_Ptr[SupBlk$W_Level] EQL '3 ') ! [03]
: 1009 5 AND ! [03]
: 1010 6 (.DSA$V_CRD_Menutest_Off) ! [03]
: 1011 5 )
: 1012 4 )
: 1013 3 THEN
: 1014 3 SupBlk_Found = True
: 1015 3 ELSE
: 1016 3 SupBlk_Ptr = (.SupBlk_Ptr [SupBlk$L_SupBlk_Size] * 4) + (.SupBlk_Ptr + 4);
: 1017 3 ! Point to next Support Block
: 1018 2 END;
: 1019 2
: 1020 3 IF (NOT .SupBlk_Found)
: 1021 2 THEN
: 1022 3 RETURN (CRD$K_Failure)
: 1023 2 ELSE
: 1024 2 Support_Blk = .SupBlk_Ptr;
: 1025 2
: 1026 2 RETURN (CRD$K_Success);
: 1027 1 END;

```

```

    00FC 00000 .ENTRY MEN$FIND_SUPBLK, Save R2,R3,R4,R5,R6,R7 ; 0935
50 04 AC D0 00002 MOVL R_DATABASE, R0 ; 0971
55 08 AC D0 00006 MOVL I_DEVNAM, R5 ; 0972
56 D4 0000A CLRL SUPBLK_FOUND ; 0975
57 60 04 A0 C1 0000C ADDL3 4(R0), (R0), END_OF_DATABASE ; 0976
54 04 A0 D0 00011 MOVL 4(R0), SUPBLK_PTR ; 0977
51 11 00015 BRB 6$ ; 0978
51 65 9A 00017 1$: MOVZBL (R5), R1 ; 0983
50 04 A4 9A 0001A MOVL 4(SUPBLK_PTR), R0 ; 0985
50 20 01 A5 51 2D 0001E CMPCS R1, 1(R5), #32, R0, 5(SUPBLK_PTR) ; 0984
05 A4 00024 ;
38 12 00026 BNEQ 5$ ;
34 13 A4 E8 00028 BLBS 19(SUPBLK_PTR), 5$ ; 0991
2032 8F 15 A4 B1 0002C CMPL 21(SUPBLK_PTR), #8242 ; 0996
08 12 00032 BNEQ 2$ ;
1F 0000FE02 9F 02 E0 00034 BBS #2, a#^X0000FE02, 4$ ; 0998
5232 8F 15 A4 B1 0003C 2$: CMPL 21(SUPBLK_PTR), #21042 ; 1002
08 12 00042 BNEQ 3$ ;
0F 0000FE02 9F 02 E0 00044 BBS #2, a#^X0000FE02, 4$ ; 1004
2033 8F 15 A4 B1 0004C 3$: CMPL 21(SUPBLK_PTR), #8243 ; 1008
0C 12 00052 BNEQ 5$ ;
05 0000FE02 9F E9 00054 BLBC a#^X0000FE02, 5$ ; 1010
56 01 D0 0005B 4$: MOVL #1, SUPBLK_FOUND ; 1014
08 11 0005E BRB 6$ ;
50 64 D0 00060 5$: MOVL (SUPBLK_PTR), R0 ; 1016
54 04 A440 DE 00063 MOVAL 4(SUPBLK_PTR)(R0), SUPBLK_PTR ;
57 54 D1 00068 6$: CMPL SUPBLK_PTR, END_OF_DATABASE ; 0978
03 18 0006B BGEQ 7$ ;
A7 56 E9 0006D BLBC SUPBLK_FOUND, 1$ ;
08 56 E9 00070 7$: BLBC SUPBLK_FOUND, 8$ ; 1020
0C BC 54 D0 00073 MOVL SUPBLK_PTR, aI_SUPPORT_BLK ; 1024
50 01 D0 00077 MOVL #1, R0 ; 1026
04 0007A RET ;
50 D4 0007B 8$: CLRL R0 ; 1027
04 0007D RET ;

```

; Routine Size: 126 bytes. Routine Base: CODE + 05AB

```

; 1028 1 xSBTTL 'MEN$Dump_TstQ_HST Routine'
; 1029 1
; 1030 1 GLOBAL ROUTINE MEN$Dump_TstQ_HST =
; 1031 1
; 1032 1 !*
; 1033 1 ! FUNCTIONAL DESCRIPTION:
; 1034 1 !
; 1035 1 ! Prints the 'test start text' and hardware support table
; 1036 1 ! info associated with each of the Test Queue Table entries.
; 1037 1 !
; 1038 1 ! INPUT PARAMETERS
; 1039 1 !
; 1040 1 ! OUTPUT PARAMETERS
; 1041 1 !
; 1042 1 ! IMPLICIT INPUTS
; 1043 1 !

```

```

: 1044 1 | Test Queue pointed to by MEN$GA_Test_Queue
: 1045 1 |
: 1046 1 | EXPLICIT OUTPUTS
: 1047 1 |
: 1048 1 | SIDE EFFECTS
: 1049 1 |
: 1050 1 | COMPLETION CODES
: 1051 1 |
: 1052 1 | CRD$K_Success;
: 1053 1 | --
: 1054 2 BEGIN
: 1055 2 LOCAL
: 1056 2 Diagnostic_Name_Ptr,
: 1057 2 Set_Flags_Args_Ptr,
: 1058 2 Set_Event_Args_Ptr,
: 1059 2 Device_Name_Ptr,
: 1060 2 Start_Qualifiers_Ptr,
: 1061 2 Test_Start_Text_Ptr,
: 1062 2 RunTime_Ptr,
: 1063 2 Preparation_Error_Text_Ptr,
: 1064 2 TstQ_Tbl_Index,
: 1065 2 TstQ_Tbl_Entries,
: 1066 2 TstQ_Tbl_Ptr : REF VECTOR [, LONG],
: 1067 2 SupBlk_Ptr : REF $MEN_SupBlk_ATTR,
: 1068 2 DDB_Ptr : REF Device_Data_Block_Structure,
: 1069 2 PTable_Ptr : REF $DS_HPO_DECL (),
: 1070 2 HST_No,
: 1071 2 HST_Index,
: 1072 2 HST_Ptr : REF VECTOR [CRD$K_Last_Entry, LONG];
: 1073 2
: 1074 2 BIND
: 1075 2 T_HST_Entry_Null =
: 1076 2 $ASCIC (''),
: 1077 2
: 1078 2 T_HST_Title =
: 1079 2 $ASCIC ('--- Hardware Support Table Information ---'),
: 1080 2
: 1081 2 T_Dump_HST =
: P 1082 2 $ASCIC ('!/',
: P 1083 2 'Diagnostic: !AC.!/',
: P 1084 2 'Flags: !AC.!/',
: P 1085 2 'Events: !AC.!/',
: P 1086 2 'Device: !AC.!/',
: P 1087 2 'Start: !AC.!/',
: P 1088 2 'Start Text: !AC.!/',
: P 1089 2 'Time: !AC.!/',
: 1090 2 'Prep Text: !AC.!/');
: 1091 2
: 1092 2 !+
: 1093 2 | Set up for indexing into Test Queue Table
: 1094 2 |-
: 1095 2
: 1096 2 TstQ_Tbl_Index = 0;
: 1097 2 TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 1098 2 TstQ_Tbl_Ptr = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];

```

```

: 1099 2
: 1100 2      !+
: 1101 2      ! Get a DDB pointer from the Test Queue Table until first null pointer
: 1102 2      !-
: 1103 2
: 1104 2      WHILE ( .TstQ_Tbl_Index LSS .TstQ_Tbl_Entries ) AND
: 1105 2      ( (DDB_Ptr = .TstQ_Tbl_Ptr ( .TstQ_Tbl_Index )) NEQ 0 ) DO
: 1106 3      BEGIN
: 1107 3      IF ( HST_Ptr = .DDB_Ptr [CRD$K_DDB_Menu_Support_Entry]) NEQ 0
: 1108 3      THEN
: 1109 4          BEGIN
: 1110 4              HST_No = .DDB_Ptr [CRD$K_DDB_Numb_Support_Tables];
: 1111 4              HST_Index = - 1;
: 1112 4
: 1113 4              WHILE ( (HST_Index = .HST_Index + 1) LSS .HST_No ) DO
: 1114 5                  BEGIN
: 1115 5                      !+
: 1116 5                      ! Print the 'test start text' associated with the HST
: 1117 5                      !-
: 1118 5
: 1119 5                      MEN$FncTst_TestStrt_Text ( .DDB_Ptr, .HST_Ptr );
: 1120 5
: 1121 5                      !+
: 1122 5                      ! Print the HST title
: 1123 5                      !-
: 1124 5
: 1125 5                      $CRD_Message (New_Line, T_HST_Title);
: 1126 5
: 1127 5                      !+
: 1128 5                      ! Check for null ASCII pointers
: 1129 5                      !-
: 1130 5
: 1131 5                      IF ( .HST_Ptr [CRD$K_Diagnostic_Name]) EQL 0
: 1132 5                      THEN
: 1133 6                          (Diagnostic_Name_Ptr = T_HST_Entry_Null)
: 1134 5                      ELSE
: 1135 5                          Diagnostic_Name_Ptr = .HST_Ptr [CRD$K_Diagnostic_Name];
: 1136 5
: 1137 5                      IF ( .HST_Ptr [CRD$K_Set_Flags_Args]) EQL 0
: 1138 5                      THEN
: 1139 6                          (Set_Flags_Args_Ptr = T_HST_Entry_Null)
: 1140 5                      ELSE
: 1141 5                          Set_Flags_Args_Ptr = .HST_Ptr [CRD$K_Set_Flags_Args];
: 1142 5
: 1143 5                      IF ( .HST_Ptr [CRD$K_Set_Event_Args]) EQL 0
: 1144 5                      THEN
: 1145 6                          (Set_Event_Args_Ptr = T_HST_Entry_Null)
: 1146 5                      ELSE
: 1147 5                          Set_Event_Args_Ptr = .HST_Ptr [CRD$K_Set_Event_Args];
: 1148 5
: 1149 5                      IF ( .HST_Ptr [CRD$K_Device_Name]) EQL 0
: 1150 5                      THEN
: 1151 6                          (Device_Name_Ptr = T_HST_Entry_Null)
: 1152 5                      ELSE
: 1153 5                          Device_Name_Ptr = .HST_Ptr [CRD$K_Device_Name];

```

```

: 1154 5
: 1155 5 IF (.HST_Ptr [CRD$K_Start_Qualifiers]) EQL 0
: 1156 5 THEN
: 1157 6   (Start_Qualifiers_Ptr = T_HST_Entry_Null)
: 1158 5 ELSE
: 1159 5   Start_Qualifiers_Ptr = .HST_Ptr [CRD$K_Start_Qualifiers];
: 1160 5
: 1161 5 IF (.HST_Ptr [CRD$K_Test_Start_Text]) EQL 0
: 1162 5 THEN
: 1163 6   (Test_Start_Text_Ptr = T_HST_Entry_Null)
: 1164 5 ELSE
: 1165 5   Test_Start_Text_Ptr = .HST_Ptr [CRD$K_Test_Start_Text];
: 1166 5
: 1167 5 IF (.HST_Ptr [CRD$K_RunTime]) EQL 0
: 1168 5 THEN
: 1169 6   (RunTime_Ptr = T_HST_Entry_Null)
: 1170 5 ELSE
: 1171 5   RunTime_Ptr = .HST_Ptr [CRD$K_RunTime];
: 1172 5
: 1173 5 IF (.HST_Ptr [CRD$K_Preparation_Error_Text]) EQL 0
: 1174 5 THEN
: 1175 6   (Preparation_Error_Text_Ptr = T_HST_Entry_Null)
: 1176 5 ELSE
: 1177 5   Preparation_Error_Text_Ptr = .HST_Ptr [CRD$K_Preparation_Error_Text];
: 1178 5
: 1179 5 !+
: 1180 5 ! Print the HST info
: 1181 5 !-
: 1182 5
P 1183 5   $CRD_Message (New_Line, T_Dump_HST,
P 1184 5   .Diagnostic_Name_Ptr,
P 1185 5   .Set_Flags_Args_Ptr,
P 1186 5   .Set_Event_Args_Ptr,
P 1187 5   .Device_Name_Ptr,
P 1188 5   .Start_Qualifiers_Ptr,
P 1189 5   .Test_Start_Text_Ptr,
P 1190 5   .RunTime_Ptr,
P 1191 5   .Preparation_Error_Text_Ptr
: 1192 5   );
: 1193 5
: 1194 5   HST_Ptr = .Hst_Ptr + (CRD$K_Last_Entry * 4);
: 1195 5   ! Point to the next HST
: 1196 4 END;
: 1197 3   END; ! HST Exists
: 1198 3
: 1199 3 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
: 1200 3 ! Next entry
: 1201 2 END; ! All Test Queue Table Entries
: 1202 2 RETURN (CRD$K_Success);
: 1203 1 END;

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

I 12
22-ENSAB-2.0  MEN$Dump_TstQ_HST Routine 19-Sep-1985 17:23:34 VAX-11 Bliss-32 V4.1-746 Page 37
MENTSTINI CRD MENU - Test Initialization 19-Sep-1985 12:33:27 [DS.CRD.V020]MENTSTINI.B32;1 (5)
V01.4  MEN$Dump_TstQ_HST Routine

00 00210 P.AAM: .ASCII <0>
53 20 65 72 61 77 64 72 61 48 20 2D 2D 2D 2A 00211 P.AAN: .ASCII \*--- Hardware Support Table Information \ ;
6E 49 20 65 6C 62 61 54 20 74 72 6F 70 70 75 00220 ;
20 6E 6F 69 74 61 6D 72 6F 66 0022F ;
2D 2D 2D 00239 .ASCII \---\ ;
20 3A 63 69 74 73 6F 6E 67 61 69 44 2F 21 9A 0023C P.AAO: .ASCII <154>\!/Diagnostic: .!AC.!/Flags: .\ ;
20 20 3A 73 67 61 6C 46 2F 21 2E 43 41 21 2E 0024B ;
2E 20 20 20 20 20 0025A ;
20 20 3A 73 74 6E 65 76 45 2F 21 2E 43 41 21 0025F .ASCII \!AC.!/Events: .!AC.!/Device: .!A\ ;
63 69 76 65 44 2F 21 2E 43 41 21 2E 20 20 20 0026E ;
41 21 2E 20 20 20 20 20 3A 65 0027D ;
20 20 20 20 20 3A 74 72 61 74 53 2F 21 2E 43 00287 .ASCII \C.!/Start: .!AC.!/Start Text: ..AC.\ ;
54 20 74 72 61 74 53 2F 21 2E 43 41 21 2E 20 00296 ;
2E 43 41 21 2E 20 3A 74 78 65 002A5 ;
2E 20 20 20 20 20 20 20 3A 65 6D 69 54 2F 21 002AF .ASCII \!/Time: .!AC.!/Prep Text: .!AC.!/\ ;
74 78 65 54 20 70 65 72 50 2F 21 2E 43 41 21 002BE ;
2F 21 2E 43 41 21 2E 20 20 3A 002CD ;

T_HST_ENTRY_NULL= P.AAM
T_HST_TITLE= P.AAN
T_DUMP_HST= P.AAO
.EXTRN MEN$FNCTST_TESTSTRT_TEXT

.PSECT CODE,NOWRT, SHR, PIC,2

OFFC 00000 .ENTRY MEN$DUMP_TSTQ_HST, Save R2,R3,R4,R5,R6,R7,- ; 1030
R8,R9,R10,R11 ;
5E 14 C2 00002 SUBL2 #20, SP ;
54 D4 00005 CLRL TSTQ_TBL_INDEX ; 1096
10 AE 00000000' EF D0 00007 MOVL MEN$GA_TEST_QUEUE, TSTQ_TBL_ENTRIES ; 1097
0C AE 00000000' EF D0 0000F MOVL MEN$GA_TEST_QUEUE+4, TSTQ_TBL_PTR ; 1098
0115 31 00017 BRW 22$ ; 1104
52 10 A3 D0 0001A 1$: MOVL 16(DDb_PTR), HST_PTR ; 1107
03 12 0001E BNEQ 2$ ;
010A 31 00020 BRW 21$ ;
6E 18 A3 D0 00023 2$: MOVL 24(DDb_PTR), HST_NO ; 1110
04 AE 01 CE 00027 MNEGL #1, HST_INDEX ; 1111
00F3 31 0002B BRW 20$ ; 1113
52 DD 0002E 3$: PUSHL HST_PTR ; 1119
53 DD 00030 PUSHL DDB_PTR ;
00000000G EF 02 FB 00032 CALLS #2, MEN$FNCTST_TESTSTRT_TEXT ;
00000000G EF 9F 00039 PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1125
01 DD 0003F PUSHL #1 ;
1A DD 00041 PUSHL #26 ;
00000000G FF 03 FB 00043 CALLS #3, aCRD$PRINT ;
00000000' EF 9F 0004A PUSHAB T_HST_TITLE ;
01 DD 00050 PUSHL #1 ;
1A DD 00052 PUSHL #26 ;
00000000G FF 03 FB 00054 CALLS #3, aCRD$PRINT ;
62 D5 0005B TSTL (HST_PTR) ; 1131
0A 12 0005D BNEQ 4$ ;
08 AE 00000000' EF 9E 0005F MOVAB T_HST_ENTRY_NULL, DIAGNOSTIC_NAME_PTR ; 1133
04 11 00067 BRB 5$ ;
08 AE 62 D0 00069 4$: MOVL (HST_PTR), DIAGNOSTIC_NAME_PTR ; 1135
04 A2 D5 0006D 5$: TSTL 4(HST_PTR) ; 1137

```



```

09 12 00070 BNEQ 6$
5B 00000000' EF 9E 00072 MOVAB T_HST_ENTRY_NULL, SET_FLAGS_ARGS_PTR ; 1139
04 11 00079 BRB 7$
08 5B 04 A2 D0 0007B 6$: MOVL 4(HST_PTR), SET_FLAGS_ARGS_PTR ; 1141
A2 D5 0007F 7$: TSTL 8(HST_PTR) ; 1143
09 12 00082 BNEQ 8$
5A 00000000' EF 9E 00084 MOVAB T_HST_ENTRY_NULL, SET_EVENT_ARGS_PTR ; 1145
04 11 0008B BRB 9$
0C 5A 08 A2 D0 0008D 8$: MOVL 8(HST_PTR), SET_EVENT_ARGS_PTR ; 1147
A2 D5 00091 9$: TSTL 12(HST_PTR) ; 1149
09 12 00094 BNEQ 10$
59 00000000' EF 9E 00096 MOVAB T_HST_ENTRY_NULL, DEVICE_NAME_PTR ; 1151
04 11 0009D BRB 11$
10 59 0C A2 D0 0009F 10$: MOVL 12(HST_PTR), DEVICE_NAME_PTR ; 1153
A2 D5 000A3 11$: TSTL 16(HST_PTR) ; 1155
09 12 000A6 BNEQ 12$
58 00000000' EF 9E 000A8 MOVAB T_HST_ENTRY_NULL, START_QUALIFIERS_PTR ; 1157
04 11 000AF BRB 13$
14 58 10 A2 D0 000B1 12$: MOVL 16(HST_PTR), START_QUALIFIERS_PTR ; 1159
A2 D5 000B5 13$: TSTL 20(HST_PTR) ; 1161
09 12 000B8 BNEQ 14$
57 00000000' EF 9E 000BA MOVAB T_HST_ENTRY_NULL, TEST_START_TEXT_PTR ; 1163
04 11 000C1 BRB 15$
18 57 14 A2 D0 000C3 14$: MOVL 20(HST_PTR), TEST_START_TEXT_PTR ; 1165
A2 D5 000C7 15$: TSTL 24(HST_PTR) ; 1167
09 12 000CA BNEQ 16$
56 00000000' EF 9E 000CC MOVAB T_HST_ENTRY_NULL, RUNTIME_PTR ; 1169
04 11 000D3 BRB 17$
1C 56 18 A2 D0 000D5 16$: MOVL 24(HST_PTR), RUNTIME_PTR ; 1171
A2 D5 000D9 17$: TSTL 28(HST_PTR) ; 1173
09 12 000DC BNEQ 18$
55 00000000' EF 9E 000DE MOVAB T_HST_ENTRY_NULL, - ; 1175
PREPARATION_ERROR_TEXT_PTR
04 11 000E5 BRB 19$
55 1C A2 D0 000E7 18$: MOVL 28(HST_PTR), PREPARATION_ERROR_TEXT_PTR ; 1177
00000000G EF 9F 000EB 19$: PUSHAB CRD$GT_NEW_LINE_MESSAGE ; 1192
01 DD 000F1 PUSHL #1 ;
1A DD 000F3 PUSHL #26 ;
00000000G FF 03 FB 000F5 CALLS #3, aCRD$PRINT ;
55 DD 000FC PUSHL PREPARATION_ERROR_TEXT_PTR ;
56 DD 000FE PUSHL RUNTIME_PTR ;
57 DD 00100 PUSHL TEST_START_TEXT_PTR ;
58 DD 00102 PUSHL START_QUALIFIERS_PTR ;
59 DD 00104 PUSHL DEVICE_NAME_PTR ;
5A DD 00106 PUSHL SET_EVENT_ARGS_PTR ;
5B DD 00108 PUSHL SET_FLAGS_ARGS_PTR ;
24 AE DD 0010A PUSHL DIAGNOSTIC_NAME_PTR ;
00000000' EF 9F 0010D PUSHAB T_DUMP_HST ;
01 DD 00113 PUSHL #1 ;
1A DD 00115 PUSHL #26 ;
00000000G FF 0B FB 00117 CALLS #11, aCRD$PRINT ;
52 20 C0 0011E ADDL2 #32, HST_PTR ; 1194
04 AE D6 00121 20$: INCL HST_INDEX ; 1113
6E 04 AE D1 00124 CMPL HST_INDEX, HST_NO ;
03 18 00128 BGEQ 21$ ;

```

```

    FF01 31 0012A BRW 3$
    54 D6 0012D 21$: INCL TSTQ_TBL_INDEX ; 1199
10 AE 54 D1 0012F 22$: CMPL TSTQ_TBL_INDEX, TSTQ_TBL_ENTRIES ; 1104
    0A 18 00133 BGEQ 23$
    53 0C BE44 D0 00135 MOVL @TSTQ_TBL_PTR[TSTQ_TBL_INDEX], DDB_PTR ; 1105
    03 13 0013A BEQL 23$
    FEDB 31 0013C BRW 1$
    50 01 D0 0013F 23$: MOVL #1, R0 ; 1202
    04 00142 RET ; 1203
  
```

; Routine Size: 323 bytes, Routine Base: CODE + 0629

```

: 1204 1 %SBTTL 'MEN$Menu_Cleanup Routine'
: 1205 1
: 1206 1 GLOBAL ROUTINE MEN$Menu_Cleanup =
: 1207 1
: 1208 1 !*
: 1209 1 ! FUNCTIONAL DESCRIPTION:
: 1210 1 !
: 1211 1 !     Performs cleanup tasks associated with CRD MENU TEST and specifically
: 1212 1 !     with respect to MEN$xxx code modules.
: 1213 1 !
: 1214 1 ! INPUT PARAMETERS
: 1215 1 !
: 1216 1 ! OUTPUT PARAMETERS
: 1217 1 !
: 1218 1 ! IMPLICIT INPUTS
: 1219 1 !
: 1220 1 !
: 1221 1 ! EXPLICIT OUTPUTS
: 1222 1 !
: 1223 1 ! SIDE EFFECTS
: 1224 1 !
: 1225 1 ! COMPLETION CODES
: 1226 1 !
: 1227 1 !     CRD$K_Success;
: 1228 1 ! --
  
```

```

1229 1
1230 2 BEGIN
1231 2   LOCAL
1232 2   Next_DDB,
1233 2   DDB_Ptr : REF Device_Data_Block_Structure,
1234 2   Queue_Head : REF $MEN_Queue_Link_Attr,
1235 2   Queue_BlkpPtr : REF $MEN_Queue_Link_Attr;
1236 2
1237 2   !+
1238 2   ! Deallocate memory allocated for loaded support database
1239 2   !-
1240 2
1241 2   IF (.MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Ptr] NEQ 0) THEN
1242 3   BEGIN
1243 3   CRD$Dispose (.MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Total_Siz],
1244 3   .MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Start]);
1245 3
1246 3   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Total_Siz] = 0;
1247 3   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Ptr] = 0;
1248 3   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Size] = 0;
1249 3   MEN$GA_FuncSup_DatBase [MEN$V_FuncSup_DatBase_Start] = 0;
1250 2   END;
1251 2
1252 2   !+
1253 2   ! Deallocate memory allocated for Test Queue Table.
1254 2   !-
1255 2
1256 2   IF (.MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr] NEQ 0) THEN
1257 3   BEGIN
1258 3   CRD$Dispose (.MEN$GA_Test_Queue [MEN$V_TQ_Table_Size], .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]);
1259 3
1260 3   MEN$GA_Test_Queue [MEN$V_TQ_Table_Size] = 0;
1261 3   MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr] = 0;
1262 3   MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries] = 0;
1263 2   END;
1264 2
1265 2   !+
1266 2   ! Deallocate the memory allocated for the HST's and the DDB's:
1267 2   ! Basic Algorithm:
1268 2   ! 1. Save the pointer to the next DDB
1269 2   ! 2. If there is one, dispose of the Hardware Support Block for this DDB.
1270 2   ! 3. Dispose of the DDB itself.
1271 2   ! 4. Go to the next DDB (saved in step 1).
1272 2   !-
1273 2
1274 2   DDB_Ptr = .MEN$GA_DDB_Head [QUEUE$L_FLink];
1275 2   ! Point to the first DDB
1276 2   IF (.DDB_Ptr NEQ 0) THEN ! If the DDB's have been created, . . .
1277 3   BEGIN
1278 3   DO
1279 4   BEGIN
1280 4   Next_DDB = .DDB_Ptr [CRD$K_DDB_FLink];
1281 4
1282 4   IF (.DDB_Ptr [CRD$K_DDB_Menu_Support_Entry] NEQ 0) THEN
1283 4   CRD$Dispose (.DDB_Ptr [CRD$K_DDB_Menu_Support_Size], .DDB_Ptr [CRD$K_DDB_Menu_Support_Entry]);

```

```

; 1284 4      ! Dispose of the Hardware Support Block, if there is one
; 1285 4
; 1286 4      CRD$Dispose (.DDB_Ptr [CRD$K_DDB_Memory_Size], .DDB_Ptr);
; 1287 4      ! Dispose of the DDB itself
; 1288 4
; 1289 4      DDB_Ptr = .Next_DDB; ! Advance to the next one in the queue
; 1290 4      END
; 1291 3      UNTIL (.DDB_Ptr EQL MEN$GA_DDB_Head);
; 1292 3      ! Loop until the last DDB's FLink points to the Queue Head
; 1293 3
; 1294 3      MEN$GA_DDB_Head [QUEUE$L_FLink] = 0;
; 1295 3      MEN$GA_DDB_Head [QUEUE$L_FLink] = 0;
; 1296 2      END;
; 1297 2
; 1298 2      !+
; 1299 2      ! Indicate that Initialization is now invalid
; 1300 2      !-
; 1301 2
; 1302 2      MEN$GB_FncTst_Init = False;
; 1303 2      RETURN (CRD$K_Success);
; 1304 1      END;

```

.EXTRN CRD\$DISPOSE

```

      000C 0000 .ENTRY MEN$MENU_CLEANUP, Save R2,R3 ; 1206
00000000' EF D5 00002 TSTL MEN$GA_FUNCSP_DATABASE+4 ; 1241
      20 13 00008 BEQL 1$ ;
      7E 00000000' EF 7D 0000A MOVQ MEN$GA_FUNCSP_DATABASE+8, -(SP) ; 1243
00000000G EF 02 FB 00011 CALLS #2, CRD$DISPOSE ;
00000000' EF 7C 00018 CLRQ MEN$GA_FUNCSP_DATABASE+4 ; 1247
00000000' EF D4 0001E CLRL MEN$GA_FUNCSP_DATABASE ; 1248
00000000' EF D4 00024 CLRL MEN$GA_FUNCSP_DATABASE+12 ; 1249
      50 00000000' EF D0 0002A 1$: MOVL MEN$GA_TEST_QUEUE+4, R0 ; 1256
      1B 13 00031 BEQL 2$ ;
      50 DD 00033 PUSHL R0 ; 1258
00000000' EF DD 00035 PUSHL MEN$GA_TEST_QUEUE+8 ;
00000000G EF 02 FB 0003B CALLS #2, CRD$DISPOSE ;
00000000' EF 7C 00042 CLRQ MEN$GA_TEST_QUEUE+4 ; 1261
00000000' EF D4 00048 CLRL MEN$GA_TEST_QUEUE ; 1262
      52 00000000' EF D0 0004E 2$: MOVL MEN$GA_DDB_HEAD, DDB_PTR ; 1274
      36 13 00055 BEQL 5$ ; 1276
      53 62 D0 00057 3$: MOVL (DDB_PTR), NEXT_DDB ; 1280
10 A2 D5 0005A TSTL 16(DDB_PTR) ; 1282
      0D 13 0005D BEQL 4$ ;
10 A2 DD 0005F PUSHL 16(DDB_PTR) ; 1283
28 A2 DD 00062 PUSHL 40(DDB_PTR) ;
00000000G EF 02 FB 00065 CALLS #2, CRD$DISPOSE ;
      52 DD 0006C 4$: PUSHL DDB_PTR ; 1286
24 A2 DD 0006E PUSHL 36(DDB_PTR) ;
00000000G EF 02 FB 00071 CALLS #2, CRD$DISPOSE ;
      52 53 D0 00078 MOVL NEXT_DDB, DDB_PTR ; 1289
      50 00000000' EF 9E 0007B MOVAB MEN$GA_DDB_HEAD, R0 ; 1291
      50 52 D1 00082 CMPL DDB_PTR, R0 ;

```

```
DO 12 00085 BNEQ 3$
00000000' EF D4 00087 CLRL MEN$GA_DDB_HEAD ; 1295
00000000' EF 94 0008D 5$: CLRB MEN$GB_FNCTST_INIT ; 1302
50 01 D0 00093 MOVL #1, R0 ; 1303
04 00096 RET ; 1304
```

; Routine Size: 151 bytes, Routine Base: CODE + 076C

```
; 1305 1 END
; 1306 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	727	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
WORK	56	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	2051	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced ...
\$ASCIC	Macro	Lib02 188	189 237 330 379 435 477 542 850 1076
\$BITPOSITION	Macro	Lib04 896	
\$CLOSE	KeyWMacr	Lib04 906	
\$CRD_LITERAL	Macro	Lib03 102	
\$CRD_MESSAGE	Macro	Lib03 839	1125 1183
\$CRD_PRINT	Unbound	839	1125 1192
\$DS_DSADef	Macro	Lib03 237 330	379 435 477 542 839 850 1125 1192
\$DS_HPO_DECL	Macro	Lib02 104	
\$DS_HPO_F	Macro	Lib02 474	746 1069
\$DS_HPO_F	Fieldset	Lib02 474	746 1069
\$DS_LOAD	KeyWMacr	Lib02 919	
\$DS_TYPEDEF	Macro	Lib02 237	330 379 435 477 542 839 851 1125 1192
\$EQLST	Macro	Lib04 102	103 237 330 379 435 477 542 839 851
\$ER	Comptime	99	
\$FAB	KeyWMacr	Lib04 896	
\$FAB_DECL	Macro	Lib04 896	
\$FAB_INIT	KeyWMacr	Lib04 900	
\$MEN_DBASEID_ATTR	Macro	Lib03 471	
\$MEN_DBASEID_FLD	Fieldset	Lib03 471	
\$MEN_DIAGBLK_ATTR	Macro	Lib03 590	
\$MEN_DIAGBLK_FLD	Fieldset	Lib03 590	
\$MEN_FUNCSDP_DATABASE_ATTR	Macro	Lib03 134	750

Symbol	Type	Defined	Referenced	...
\$MEN_FUNC\$UP_DATABASE_FLD	Fieldset	Lib03	134	750
\$MEN_LITERALS	Macro	Lib03	103	
\$MEN_QUEUE_LINK_ATTR	Macro	Lib03	128	1234 1235
\$MEN_QUEUE_LINK_FLD	Fieldset	Lib03	128	1234 1235
\$MEN_SUPBLK_ATTR	Macro	Lib03	468	593 741 966 1067
\$MEN_SUPBLK_FLD	Fieldset	Lib03	468	593 741 966 1067
\$MEN_TEST_QUEUE_ATTR	Macro	Lib03	152	
\$MEN_TSTCNFG_ATTR	Macro	Lib03	592	
\$MEN_TSTCNFG_FLD	Fieldset	Lib03	592	
\$MODULE	Bind	99		
\$OPEN	KeyWMacr	Lib04	904	
\$RMS_BITFLD	Macro	Lib04	896	
\$RMS_BITFLD_INI	Macro	Lib04	902	
\$RMS_BITS	Unbound		896	
	Macro	Lib04	896	902
\$RMS_CODFLD	Macro	Lib04	896	
\$RMS_CODFLD_INI	Macro	Lib04	902	
\$RMS_OR	Macro	Lib04	896	902
\$RMS_PTR	Bind	902	902=	
\$RMS_VALFLD	Unbound		896	
	Macro	Lib04	896	897
\$RMS_VALFLD_INI	Macro	Lib04	902	
\$XABFHC	KeyWMacr	Lib04	897	
\$XABFHC_DECL	Macro	Lib04	897	
ADDR	MacrForm	108	110	
ADDRESS	Bind	833	845=	
AUTO\$K_EXIT_AUTOSIZER_ERROR	Literal		102	
AUTO\$K_EXIT_CONTROL_C	Literal		102	
AUTO\$K_EXIT_DUMMY_2	Literal		102	
AUTO\$K_EXIT_DUMMY_3	Literal		102	
AUTO\$K_EXIT_ERRORS_COMPLETE	Literal		102	
AUTO\$K_EXIT_ERRORS_INCOMPLETE	Literal		102	
AUTO\$K_EXIT_INTERNAL_ERROR	Literal		102	
AUTO\$K_EXIT_INV_BASE_SYSTEM	Literal		102	
AUTO\$K_EXIT_LAST_REASON	Literal		102 102	
AUTO\$K_EXIT_NOERRORS_COMPLETE	Literal		102	
AUTO\$K_EXIT_NOERRORS_INCOMPLETE	Literal		102	
AUTO\$K_EXIT_NOERRORS_PREP	Literal		102	
A_FILE_DEFAULT	Own	185	486= 487= 495a	
A_MENFUNC\$UP_FILE	Own	183	483= 484= 494a	
CRD\$ALLOCATE_MEMORY	BindRout	828	836c	
CRD\$COMMON_INITIALIZATIONS	ExtRout	Lib03	252c	
CRD\$DISPOSE	ExtRout	Lib03	1243c 1258c 1283c 1286c	
CRD\$EXE\$ALONONPAGED	External	Lib03	828	
CRD\$GA_PTABLE	External	Lib03	375 376	
CRD\$GB_CRD_DEBUG	External	Lib03	236 329 378 434 476 541 849	
CRD\$GB_CURRENT_STATE_TABLE	External	Lib03	307=	
CRD\$GT_NEW_LINE_MESSAGE	External	Lib03	839a 1125a 1192a	
CRD\$GT_STAR_LINE_PREFIX_MESSAGE	Unbound		839 1125 1192	
CRD\$GT_STAR_LINE_SUFFIX_MESSAGE	Unbound		839 1125 1192	
CRD\$INIT_GENERAL_COM_TABLE	ExtRout	Lib03	309c	
CRD\$K_ACTION_EQL_DO_NOTHING	Literal		102	
CRD\$K_ACTION_RANGE_ERROR	Literal		102	

ZZ-ENSAB-2.0 MEN\$Menu_Cleanup Routine

MENTSTINI CRD MENU - Test Initialization

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V01.4 MEN\$Menu_Cleanup Routine

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[DS.CRD.V020]MENTSTINI.B32;1 (6)

Symbol	Type	Defined	Referenced	...
CRD\$K_ADVANCE_DIAGNOSTIC	Literal	102		
CRD\$K_ADVANCE_GENERAL_COM	Literal	102		
CRD\$K_ADVANCE_STATE	Literal	102		
CRD\$K_ALLOCATION_ERROR	Literal	102	405	426 917
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	102		
CRD\$K_AUTOSIZER_ERROR	Literal	102		
CRD\$K_AUTOSIZER_SET_FLAGS	Literal	102		
CRD\$K_BAD_ACTION_NUMBER	Literal	102		
CRD\$K_BAD_TYPECODE_ERROR	Literal	102		
CRD\$K_BASE_SYSTEM_IDC	Literal	102		
CRD\$K_BASE_SYSTEM_LESI	Literal	102		
CRD\$K_BASE_SYSTEM_NULL	Literal	102		
CRD\$K_BASE_SYSTEM_UDA_0	Literal	102		
CRD\$K_BASE_SYSTEM_UDA_1	Literal	102		
CRD\$K_BASE_SYSTEM_UDA_2	Literal	102		
CRD\$K_BASE_SYSTEM_UDA_3	Literal	102		
CRD\$K_CRD_INITIALIZATION	Literal	102		
CRD\$K_CREATE_HST	Literal	102	537	
CRD\$K_DATA_LENGTH_ERROR	Literal	102		
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	102		
CRD\$K_DDB_BLINK	Literal	102		
CRD\$K_DDB_FLINK	Literal	102	515	759 1280
CRD\$K_DDB_LAST_ENTRY	Literal	102	403	405
CRD\$K_DDB_MEMORY_SIZE	Literal	102	409	1286
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	102	769	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	102	618	1107 1282 1283
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	102	621	1283
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	102	624	1110
CRD\$K_DDB_PTABLE_ENTRY	Literal	102	408	517 761
CRD\$K_DDB_STATUS	Literal	102		
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	102	529	600 762
CRD\$K_DEVICE_NAME	Literal	102	1149	1153
CRD\$K_DIAGNOSTIC_ERROR	Literal	102		
CRD\$K_DIAGNOSTIC_NAME	Literal	102	663	1131 1135
CRD\$K_DONE_GENERAL_COMS	Literal	102		
CRD\$K_DO_NOTHING	Literal	102		
CRD\$K_DUMMY_10	Literal	102		
CRD\$K_DUMMY_11	Literal	102		
CRD\$K_DUMMY_12	Literal	102		
CRD\$K_DUMMY_13	Literal	102		
CRD\$K_DUMMY_3	Literal	102		
CRD\$K_DUMMY_4	Literal	102		
CRD\$K_DUMMY_5	Literal	102		
CRD\$K_DUMMY_6	Literal	102		
CRD\$K_DUMMY_7	Literal	102		
CRD\$K_DUMMY_8	Literal	102		
CRD\$K_DUMMY_9	Literal	102		
CRD\$K_EXIT_CRD	Literal	102		
CRD\$K_FAILURE	Literal	Lib03	616	840 1022
CRD\$K_HOOK_POINT	Literal	102		
CRD\$K_HS_INTERNAL_ERROR	Literal	102		
CRD\$K_IDC_EVDLB	Literal	102		
CRD\$K_IDC_EVDLC	Literal	102		

Symbol	Type	Defined	Referenced	...
CRD\$K_IDC_EVDLD	Literal	102		
CRD\$K_IDC_EVRAD_0	Literal	102		
CRD\$K_IDC_EVRAD_1	Literal	102		
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	102		
CRD\$K_INTERNAL_ERROR	Literal	102		
CRD\$K_LAST_ACTION_ROUTINE	Literal	102		
CRD\$K_LAST_ENTRY	Literal	102	614	709 1072 1194
CRD\$K_LAST_FUNCTION	Literal	102		
CRD\$K_LAST_HOOK_POINT	Literal	102		
CRD\$K_LAST_INTERNAL_ERROR	Literal	102		
CRD\$K_LAST_TYPE	Literal	102		
CRD\$K_LESI_ENWCA	Literal	102		
CRD\$K_LESI_EVRMB_0	Literal	102		
CRD\$K_LESI_EVRMB_1	Literal	102		
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	102		
CRD\$K_LEVEL_4_PASSED	Literal	102		
CRD\$K_LOAD_AUTOSIZER	Literal	102		
CRD\$K_LOAD_ERROR	Literal	102		
CRD\$K_LOAD_GENERAL_COM	Literal	102		
CRD\$K_LOAD_LOAD_COM	Literal	102		
CRD\$K_LOAD_SELECT_COM	Literal	102		
CRD\$K_LOAD_SET_EVENT_COM	Literal	102		
CRD\$K_LOAD_SET_FLAGS_COM	Literal	102		
CRD\$K_LOAD_START_COM	Literal	102		
CRD\$K_LOAD_SUP_FILE	Literal	102		
CRD\$K_MM_INTERNAL_ERROR	Literal	102		
CRD\$K_NEW_LINE	Literal	102		
CRD\$K_PREPARATION_ERROR	Literal	102		
CRD\$K_PREPARATION_ERROR_TEXT	Literal	102	1173	1177
CRD\$K_RUNTIME	Literal	102	703 1167	1171
CRD\$K_SAME_LINE	Literal	102		
CRD\$K_SET_EVENT_ARGS	Literal	102	679	1143 1147
CRD\$K_SET_FLAGS_ARGS	Literal	102	671	1137 1141
CRD\$K_SET_UP_DIAGNOSTIC	Literal	102		
CRD\$K_START	Literal	102		
CRD\$K_START_AUTOSIZER	Literal	102		
CRD\$K_START_ERROR	Literal	102		
CRD\$K_START_QUALIFIERS	Literal	102	687	1155 1159
CRD\$K_STAR_LINE	Literal	102		
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	102		
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	102		
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	102		
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	102		
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	102		
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	102		
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	102		
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	102		
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	102		
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	102		
CRD\$K_STATE_DUMMY_1	Literal	102		
CRD\$K_STATE_DUMMY_10	Literal	102		
CRD\$K_STATE_DUMMY_12	Literal	102		
CRD\$K_STATE_DUMMY_13	Literal	102		

Symbol	Type	Defined	Referenced	...
CRD\$K_STATE_DUMMY_2	Literal	102		
CRD\$K_STATE_DUMMY_3	Literal	102		
CRD\$K_STATE_DUMMY_4	Literal	102		
CRD\$K_STATE_DUMMY_6	Literal	102		
CRD\$K_STATE_DUMMY_7	Literal	102		
CRD\$K_STATE_DUMMY_8	Literal	102		
CRD\$K_STATE_EXIT_CRD	Literal	102		
CRD\$K_STATE_INTERNAL_ERROR	Literal	102		
CRD\$K_STATE_LAST_STATE	Literal	102		
CRD\$K_STATE_LEVEL_4_PASSED	Literal	102		
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	102		
CRD\$K_STATE_LOAD_ERROR	Literal	102		
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	102		
CRD\$K_STATE_LOAD_LOAD_COM	Literal	102		
CRD\$K_STATE_LOAD_SELECT_COM	Literal	102		
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	102		
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	102		
CRD\$K_STATE_LOAD_START_COM	Literal	102		
CRD\$K_STATE_PREPARATION_ERROR	Literal	102		
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	102		
CRD\$K_STATE_START	Literal	102		
CRD\$K_STATE_START_AUTOSIZER	Literal	102		
CRD\$K_STATE_START_ERROR	Literal	102		
CRD\$K_SUCCESS	Literal	Lib03 332	437 544 714 787 853 931 1026 1202 1303	
CRD\$K_TEST_START_TEXT	Literal	102 695	1161 1165	
CRD\$K_TQ_INTERNAL_ERROR	Literal	102		
CRD\$K_TYPECODE	Literal	102		
CRD\$K_UDA_0_EVDLB	Literal	102		
CRD\$K_UDA_0_EVDLC	Literal	102		
CRD\$K_UDA_0_EVDLD	Literal	102		
CRD\$K_UDA_0_EVRLA_0	Literal	102		
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	102		
CRD\$K_UDA_1_EVDLB	Literal	102		
CRD\$K_UDA_1_EVDLC	Literal	102		
CRD\$K_UDA_1_EVDLD	Literal	102		
CRD\$K_UDA_1_EVRLA_0	Literal	102		
CRD\$K_UDA_1_EVRLA_1	Literal	102		
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	102		
CRD\$K_UDA_2_EVDLB	Literal	102		
CRD\$K_UDA_2_EVDLC	Literal	102		
CRD\$K_UDA_2_EVDLD	Literal	102		
CRD\$K_UDA_2_EVRLA_0	Literal	102		
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	102		
CRD\$K_UDA_3_EVDLB	Literal	102		
CRD\$K_UDA_3_EVDLC	Literal	102		
CRD\$K_UDA_3_EVDLD	Literal	102		
CRD\$K_UDA_3_EVRLA_0	Literal	102		
CRD\$K_UDA_3_EVRLA_1	Literal	102		
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	102		
CRD\$PRINT	External	Lib03 237ac	330ac 379ac 435ac 477ac 542ac 839ac 851ac 1125ac 1192ac	
CRD\$STOP	Unbound	111	119 121	
ExtRout	Lib03	260c	325c 405c 426c 537c 904c 917c 929c	
CREATE_HST	Routine	548	80f 535c	

Symbol	Type	Defined	Referenced	...
DATABASE	Bind	971	976	977
DATABASE_ID	Register	471	500=	505. 505a.
DBASEID\$L_SIZE	Field	Lib03	505.	
DDB	Bind	597	599a	
DDB_COUNT	Register	370	393=	410= 410. 418.
DDB_PTR	Local	364	403a	405. 407. 408a= 409a=
	Register	473	513=	515= 515a. 517a. 529a= 535. 537.
	Register	594	599=	600a. 618a= 621a= 624a=
	Local	745	758=	759a. 761a. 762a. 769a=
	Local	1068	1105=	1107a. 1110a. 1119.
	Local	1233	1274=	1276. 1280a. 1282a. 1283a. 1286a. 1286. 1289= 1291.
DDB_SIZE	Local	366	403a	405. 409.
DDB_TSTQ_TBL_ENTRIES	Register	369	418=	421. 426.
DEVICE_DATA_BLOCK_STRUCTURE	Structur	Lib03	364	473 594 745 1068 1233
DEVICE_NAME_PTR	Register	472	518=	525.
	Local	1059	1151=	1153= 1192.
DEVNAM	Bind	972	983.	984.
DIAGBLK\$B_FRST_RECORD	Field	Lib03	657a	
DIAGBLK\$W_RECORD_NO	Field	Lib03	655.	
DIAGBLK_INDEX	Register	589	636=	652= 652.
DIAGBLK_NO	Register	588	606=	614. 633= 652.
DIAGBLK_PTR	Register	590	638=	655a. 657aa 707=
DIAGNOSTIC_NAME_PTR	Local	1056	1133=	1135= 1192.
DS\$K_PRINTB	Literal	237		
	Literal	330		
	Literal	379		
	Literal	435		
	Literal	477		
	Literal	542		
	Literal	839		
	Literal	839		
	Literal	851		
	Literal	1125		
	Literal	1125		
	Literal	1192		
	Literal	1192		
DS\$K_PRINTF	Literal	237	237	
	Literal	330	330	
	Literal	379	379	
	Literal	435	435	
	Literal	477	477	
	Literal	542	542	
	Literal	839	839	
	Literal	839	839	
	Literal	851	851	
	Literal	1125	1125	
	Literal	1125	1125	
	Literal	1192	1192	
	Literal	1192	1192	
DS\$K_PRINTI	Literal	237		
	Literal	330		
	Literal	379		
	Literal	435		

Symbol	Type	Defined	Referenced ...

	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_PRINTX	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_ABORT PROGRAM	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_ABORT TEST	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_COMMAND_ERR	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	

Symbol	Type	Defined	Referenced	...

Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_COMMAND_OUT	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_CRD_AUTOTEST	Literal		237	237
Literal		330	330	
Literal		379	379	
Literal		435	435	
Literal		477	477	
Literal		542	542	
Literal		839	839	
Literal		839	839	
Literal		851	851	
Literal		1125	1125	
Literal		1125	1125	
Literal		1192	1192	
Literal		1192	1192	
DS\$K_TYPE_DS_PROMPT	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_DS_START	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		

Symbol	Type	Defined	Referenced	...
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_ERRPREP	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_ERRSOFT	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_ERRSUP	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_ERRSYS	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		

Symbol	Type	Defined	Referenced	...
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_ERR_HALT	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_EXCEPTION	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_EXCEPTION_HEAD	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		
Literal		1125		
Literal		1125		
Literal		1192		
Literal		1192		
DS\$K_TYPE_FIRST_PASS	Literal		237	
Literal		330		
Literal		379		
Literal		435		
Literal		477		
Literal		542		
Literal		839		
Literal		839		
Literal		851		

Literal	1125		
Literal	1125		
Literal	1192		
Literal	1192		
DS\$K_TYPE_GENERAL	Literal	237	
Literal	330		
Literal	379		
Literal	435		
Literal	477		
Literal	542		
Literal	839		
Literal	839		
Literal	851		
Literal	1125		
Literal	1125		
Literal	1192		
Literal	1192		
DS\$K_TYPE_GENERAL_ERROR	Literal	237	
Literal	330		
Literal	379		
Literal	435		
Literal	477		
Literal	542		
Literal	839		
Literal	839		
Literal	851		
Literal	1125		
Literal	1125		
Literal	1192		
Literal	1192		
DS\$K_TYPE_NO_TESTS	Literal	237	
Literal	330		
Literal	379		
Literal	435		
Literal	477		
Literal	542		
Literal	839		
Literal	839		
Literal	851		
Literal	1125		
Literal	1125		
Literal	1192		
Literal	1192		
DS\$K_TYPE_PARAM_ERROR	Literal	237	
Literal	330		
Literal	379		
Literal	435		
Literal	477		
Literal	542		
Literal	839		
Literal	839		
Literal	851		
Literal	1125		

	Literal	1125		
	Literal	1192		
	Literal	1192		
DS\$K	TYPE_PROGRAM_END	Literal	237	
	Literal	330		
	Literal	379		
	Literal	435		
	Literal	477		
	Literal	542		
	Literal	839		
	Literal	839		
	Literal	851		
	Literal	1125		
	Literal	1125		
	Literal	1192		
	Literal	1192		
DS\$K	TYPE_PROGRAM_INFO	Literal	237	
	Literal	330		
	Literal	379		
	Literal	435		
	Literal	477		
	Literal	542		
	Literal	839		
	Literal	839		
	Literal	851		
	Literal	1125		
	Literal	1125		
	Literal	1192		
	Literal	1192		
DS\$K	TYPE_PROGRAM_START	Literal	23	
	Literal	330		
	Literal	379		
	Literal	435		
	Literal	477		
	Literal	542		
	Literal	839		
	Literal	839		
	Literal	851		
	Literal	1125		
	Literal	1125		
	Literal	1192		
	Literal	1192		
DS\$K	TYPE_QIO_INVADP	Literal	237	
	Literal	330		
	Literal	379		
	Literal	435		
	Literal	477		
	Literal	542		
	Literal	839		
	Literal	839		
	Literal	851		
	Literal	1125		
	Literal	1125		

Symbol Type Defined Referenced ...

	Literal	1192	
	Literal	1192	
DS\$K_TYPE_QIO_NODRIVER	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_QIO_WRONGVER	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_SCRIPT_ECHO	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	
	Literal	1192	
DS\$K_TYPE_SCRIPT_PNF	Literal	237	
	Literal	330	
	Literal	379	
	Literal	435	
	Literal	477	
	Literal	542	
	Literal	839	
	Literal	839	
	Literal	851	
	Literal	1125	
	Literal	1125	
	Literal	1192	

Symbol Type Defined Referenced ...

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-----
  Literal 1192
DS$K_TYPE_SCRIPT_PROMPT Literal 237
  Literal 330
  Literal 379
  Literal 435
  Literal 477
  Literal 542
  Literal 839
  Literal 839
  Literal 851
  Literal 1125
  Literal 1125
  Literal 1192
  Literal 1192
DS$K_TYPE_SCRIPT_SKIP Literal 237
  Literal 330
  Literal 379
  Literal 435
  Literal 477
  Literal 542
  Literal 839
  Literal 839
  Literal 851
  Literal 1125
  Literal 1125
  Literal 1192
  Literal 1192
DS$K_TYPE_SEQUENCE_ERROR Literal 237
  Literal 330
  Literal 379
  Literal 435
  Literal 477
  Literal 542
  Literal 839
  Literal 839
  Literal 851
  Literal 1125
  Literal 1125
  Literal 1192
  Literal 1192
DS$K_TYPE_START_ERR Literal 237
  Literal 330
  Literal 379
  Literal 435
  Literal 477
  Literal 542
  Literal 839
  Literal 839
  Literal 851
  Literal 1125
  Literal 1125
  Literal 1192
  Literal 1192
  
```

Symbol	Type	Defined	Referenced	...
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DSSK_TYPE_START_LIST	Literal	237
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L i t e r a l	330
L i t e r a l	379
L i t e r a l	435
L i t e r a l	477
L i t e r a l	542
L i t e r a l	839
L i t e r a l	839
L i t e r a l	851
L i t e r a l	1125
L i t e r a l	1125
L i t e r a l	1192
L i t e r a l	1192

DS\$K TYPE SUMMARY Literal 237

L i t e r a l	330
L i t e r a l	379
L i t e r a l	435
L i t e r a l	477
L i t e r a l	542
L i t e r a l	839
L i t e r a l	839
L i t e r a l	851
L i t e r a l	1125
L i t e r a l	1125
L i t e r a l	1192
L i t e r a l	1192

Literal	1172
DS\$K_TYPE_USER_PROMPT	Literal 237

L i t e r a l	330
L i t e r a l	379
L i t e r a l	435
L i t e r a l	477
L i t e r a l	542
L i t e r a l	839
L i t e r a l	839
L i t e r a l	851
L i t e r a l	1125
L i t e r a l	1125
L i t e r a l	1192
L i t e r a l	1192

DS\$LOAD	ExtRout	926	926c
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DSASAL_APTMAIL	Bind	104	104
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DSASGL_APTCOM	Bind	104
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DSASGL_DEVLEN	Bind	104
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DSAGL_DEVNAM Bind 104

DSAGL_ERRNO	Bind	104
-------------	------	-----

DSASGL_EVENT	Bind	104
--------------	------	-----

DSA\$GL_FLAGS	Bind	104	254	258	259	320	323	324	998	1004	1010
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DSASGL MSGPTR	Bind	104
DSASGL MSGPTR	Bind	104

DSASGL MSGTYP	Bind	104
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DSASGL_PASSES	Bind	104
DSASGL_PASSES	Bind	104

DSASGL_PASSNO	Bind	104
DSASGL_SECTNO	Bind	104

DSAGL SECTNO Bind 104

DSASGL SID Bind 104

Symbol	Type	Defined	Referenced	...
DSA\$GL_SUBTNO	Bind	104		
DSA\$GL_TESTNO	Bind	104		
DSA\$GL_UNITS	Bind	104		
DSA\$V_BINARY	Macro	Lib02	254 320	
DSA\$V_CRD_MENUTEST_OFF	Macro	Lib02	258 323 1010	
DSA\$V_CRD_MENUTEST_ON	Macro	Lib02	259 324 998 1004	
DSA_EXTRACT	RoutForm	192	256. 321.	
DSC\$A_POINTER	Macro	Lib04	484 487	
DSC\$K_S_BLN	Literal	Lib04	183 185	
DSC\$W_LENGTH	Macro	Lib04	483 486	
END_OF_DATABASE	Local		968 976= 978.	
FAB	Local	896	896= 902a 904a 906a 910. 911. 912.	
FAB\$B_BID	Macro	Lib04	902	
FAB\$B_BKS	Macro	Lib04	902	
FAB\$B_BLN	Macro	Lib04	902	
FAB\$B_DNS	Macro	Lib04	902	
FAB\$B_FAC	Macro	Lib04	902	
FAB\$B_FNS	Macro	Lib04	902	
FAB\$B_FSZ	Macro	Lib04	902 912	
FAB\$B_ORG	Macro	Lib04	902	
FAB\$B_RAT	Macro	Lib04	902	
FAB\$B_RFM	Macro	Lib04	902 911	
FAB\$B_RTV	Macro	Lib04	902	
FAB\$B_SHR	Macro	Lib04	902	
FAB\$C_BID	Literal	Lib04	896 902	
FAB\$C_BLN	Literal	Lib04	896 902	
FAB\$C_SEQ	Literal	Lib04	896	
FAB\$C_VAR	Literal	Lib04	896 902	
FAB\$L_ALQ	Macro	Lib04	902	
FAB\$L_CTX	Macro	Lib04	902	
FAB\$L_DNA	Macro	Lib04	902	
FAB\$L_FNA	Macro	Lib04	902	
FAB\$L_FOP	Macro	Lib04	902	
FAB\$L_JNL	Macro	Lib04	902	
FAB\$L_MRN	Macro	Lib04	902	
FAB\$L_NAM	Macro	Lib04	902	
FAB\$L_XAB	Macro	Lib04	902	
FAB\$M_BIO	Literal	Lib04	902	
FAB\$M_GET	Literal	Lib04	896 902	
FAB\$V_CHAN_MODE	Macro	Lib04	896 902	
FAB\$V_FILE_MODE	Macro	Lib04	896 902	
FAB\$V_LNM_MODE	Macro	Lib04	896 902	
FAB\$W_BLS	Macro	Lib04	902	
FAB\$W_DEQ	Macro	Lib04	902	
FAB\$W_GBC	Macro	Lib04	902	
FAB\$W_MRS	Macro	Lib04	902 910	
FALSE	Literal	Lib03	168 175 244 975 1302	
FILE_ATTRIBUTES	Local		895 910= 911= 912= 926a	
GET1\$T_	Macro	Lib04	102 103 237 330 379 435 477 542 839 851	
		1125 1192		
GET2ND_	Unbound		102 103 237 330 379 435 477 542 839 851	
		1125 1192		
HP\$K_LENGTH	Literal	Lib02	474 746 1069	

Symbol Type Defined Referenced ...

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HPST_TYPE      Field      Lib02      518a
HSSK_ACTION_ADVANCE_DIAGNOSTIC Literal      102
HSSK_ACTION_ADVANCE_GENERAL_COM Literal      102
HSSK_ACTION_ADVANCE_STATE Literal      102
HSSK_ACTION_CHANGE_TABLE Literal      102
HSSK_ACTION_DIAGNOSTIC_ERROR Literal      102
HSSK_ACTION_DONE_GENERAL_COMS Literal      102
HSSK_ACTION_DO_NOTHING Literal      102
HSSK_ACTION_DUMMY_3 Literal      102
HSSK_ACTION_DUMMY_4 Literal      102
HSSK_ACTION_DUMMY_5 Literal      102
HSSK_ACTION_DUMMY_6 Literal      102
HSSK_ACTION_INIT_HS Literal      102
HSSK_ACTION_INTERNAL_ERROR Literal      102
HSSK_ACTION_LAST_ACTION Literal      102
HSSK_ACTION_LOAD_ERROR Literal      102
HSSK_ACTION_LOAD_GENERAL_COM Literal      102
HSSK_ACTION_LOAD_LOAD_COM Literal      102
HSSK_ACTION_LOAD_SELECT_COM Literal      102
HSSK_ACTION_LOAD_SET_EVENT_COM Literal      102
HSSK_ACTION_LOAD_SET_FLAGS_COM Literal      102
HSSK_ACTION_LOAD_START_COM Literal      102
HSSK_ACTION_PREPARATION_ERROR Literal      102
HSSK_ACTION_START_ERROR Literal      102
HSSK_STATE_ADVANCE_DIAGNOSTIC Literal      102
HSSK_STATE_ADVANCE_GENERAL_COM Literal      102
HSSK_STATE_CHANGE_TABLE Literal      102
HSSK_STATE_DIAGNOSTIC_ERROR Literal      102
HSSK_STATE_DIAGNOSTIC_RUNNING Literal      102
HSSK_STATE_DONE_GENERAL_COMS Literal      102
HSSK_STATE_DUMMY_1 Literal      102
HSSK_STATE_DUMMY_2 Literal      102
HSSK_STATE_DUMMY_3 Literal      102
HSSK_STATE_DUMMY_4 Literal      102
HSSK_STATE_DUMMY_6 Literal      102
HSSK_STATE_INIT_HS Literal      102
HSSK_STATE_INTERNAL_ERROR Literal      102
HSSK_STATE_LAST_STATE Literal      102
HSSK_STATE_LOAD_ERROR Literal      102
HSSK_STATE_LOAD_GENERAL_COM Literal      102
HSSK_STATE_LOAD_LOAD_COM Literal      102
HSSK_STATE_LOAD_SELECT_COM Literal      102
HSSK_STATE_LOAD_SET_EVENT_COM Literal      102
HSSK_STATE_LOAD_SET_FLAGS_COM Literal      102
HSSK_STATE_LOAD_START_COM Literal      102
HSSK_STATE_PREPARATION_ERROR Literal      102
HSSK_STATE_START_ERROR Literal      102
HST_INDEX      Local      1071      1111=      1113=      1113.
HST_NO         Local      1070      1110=      1113.
HST_PTR        Local      581      614a      618.      663a=      671a=      679a=      687a=      695a=      703a=      709=      709aa
Local          1072      1107=      1119.      1131a.      1135a.      1137a.      1141a.      1143a.      1147a.      1149a.      1153a.
                  1155a.      1159a.      1161a.      1165a.      1167a.      1171a.      1173a.      1177a.      1194=      1194.
HST_SIZE       Local      580      614a      621.

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Symbol	Type	Defined	Referenced	...
INSQUE	Builtin	71	407	
INTERNAL_ERROR_EXIT	Macro	108	405	425 537 917
I_ADDRESS	RoutForm	791	833	
	RoutForm	857	915	917a. 926a.
I_DDB	RoutForm	548	597	
I_DEVNAM	RoutForm	935	972	
I_MEMSIZE	RoutForm	857	915	917a.
I_RETSIZE	RoutForm	791	834	
I_SIZE	RoutForm	857	908a=	915. 917a. 926a. 926.
I_SUPPORT_BLK	RoutForm	935	973	
JSB_ALLOC	Linkage	Lib01	828	
LOAD_ERROR_EXIT	Macro	116	904	929
MEN\$ALLOCATE_MEMORY	GlobRout	791	Lib03e	82f 403c 421c 614c 915c
MEN\$BUILD_DDB	GlobRout	336	Lib03e	78f
MEN\$CNTLC_INIT_TBL_INIT	ExtRout	Lib03	292c	
MEN\$CNTLC_MENU	ExtRout	Lib03	252a	
MEN\$CNTLC_TBL_INIT	ExtRout	Lib03	298c	
MEN\$DETERMINE_SUPPORT	GlobRout	441	Lib03e	79f
MEN\$DUMP_TSTQ_HST	GlobRout	1030	Lib03e	85f
MEN\$FIND_SUPBLK	GlobRout	935	Lib03e	84f 524c
MEN\$FNCTST_TESTSTRT_TEXT	ExtRout	Lib03	1119c	
MEN\$FTMTBL_INIT	ExtRout	Lib03	280c	
MEN\$GA_DDB_HEAD	Global	128	Lib03e	130= 131= 385= 385a 386= 386a 407. 513a 515
		758a 759	1274. 1291	1294= 1295=
MEN\$GA_FUNCUP_DATABASE	Global	134	Lib03e	136= 137= 138= 139= 496a 497a 498a 500. 504=
		524a 750a	1241. 1243. 1244. 1246= 1247= 1248= 1249=	
MEN\$GA_TEST_QUEUE	Global	152	Lib03e	154= 155= 156= 422a 426. 428= 431= 1097. 1098.
		1256. 1258.	1260= 1261= 1262=	
MEN\$GB_FNCTST_INIT	Global	168	Lib03e	168= 244= 1302=
MEN\$GB_TEST_IN_PROGRESS	Global	175	Lib03e	175=
MEN\$GK_FUNCUP_DATABASE	Literal	Lib03	134	750
MEN\$GK_TEST_QUEUE	Literal	103		
MEN\$GT_FILE_DEFAULT	External	Lib03		
	GlobBind	189	486. 487a	
MEN\$GT_MENFUNCUP_FILE	External	Lib03		
	GlobBind	188	483. 484a	
MEN\$GT_NOALL_NONPGMEM	External	Lib03	839a	
MEN\$INIT_HS_STATE_TABLE	ExtRout	Lib03	312c	
MEN\$INIT_MM_STATE_TABLE	ExtRout	Lib03	310c	
MEN\$INIT_TQ_STATE_TABLE	ExtRout	Lib03	311c	
MEN\$K_CNTLC_SEL_CONTINUE	Literal	103		
MEN\$K_CNTLC_SEL_EXIT	Literal	103		
MEN\$K_CNTLC_SEL_FTMENU	Literal	103		
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal	103		
MEN\$K_DBASEID_SIZE	Literal	Lib03	471	
MEN\$K_DEVTSTPREP_1	Literal	103		
MEN\$K_DEVTSTPREP_2	Literal	103		
MEN\$K_DEVTSTPREP_3	Literal	103		
MEN\$K_DEVTSTPREP_4	Literal	103		
MEN\$K_DEVTSTPREP_5	Literal	103		
MEN\$K_DEVTSTPREP_6	Literal	103		
MEN\$K_DEVTSTPREP_7	Literal	103		
MEN\$K_DEVTSTPREP_NULL	Literal	103		

Symbol	Type	Defined	Referenced	...
MEN\$K_DIAGBLK_SIZE	Literal	Lib03	590	
MEN\$K_FTMRET_EXIT	Literal	103		
MEN\$K_FTMRET_FAILURE	Literal	103		
MEN\$K_FTMRET_MENU	Literal	103		
MEN\$K_FTMRET_TEST	Literal	103		
MEN\$K_FTMSEL_EXIT	Literal	103		
MEN\$K_FTMSEL_FNCTST_ALL	Literal	103		
MEN\$K_FTMSEL_LAST_ENTRY	Literal	103		
MEN\$K_FTMSEL_PREP	Literal	103		
MEN\$K_FTMSEL_SYSTEM_HDWR	Literal	103		
MEN\$K_FTMSEL_TEST	Literal	103		
MEN\$K_HS_STATE_TABLE	Literal	102		
MEN\$K_MM_STATE_TABLE	Literal	102	307	
MEN\$K_PREP_ERROR_TEXT_LEN	Literal	103		
MEN\$K_QUEUE_LINK_SIZE	Literal	Lib03	128 1234 1235	
MEN\$K_SELDEV_NUMB_START	Literal	103	757	
MEN\$K_SUPBLK_SIZE	Literal	Lib03	468 593 741 966 1067	
MEN\$K_TEST_QUEUE_PTR_BLK_SIZE	Literal	Lib03	152	
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal	103		
MEN\$K_TQ_STATE_TABLE	Literal	102		
MEN\$K_TSTCLA_ALL	Literal	103		
MEN\$K_TSTCLA_CARD	Literal	103	784	
MEN\$K_TSTCLA_COMM	Literal	103	780	
MEN\$K_TSTCLA_CPU	Literal	103	776	
MEN\$K_TSTCLA_DISK	Literal	103	778	
MEN\$K_TSTCLA_IO_ADAPTOR	Literal	103	785	
MEN\$K_TSTCLA_LAST_ENTRY	Literal	103		
MEN\$K_TSTCLA_MEMORY	Literal	103	777	
MEN\$K_TSTCLA_NULL	Literal	103		
MEN\$K_TSTCLA_PRINTER	Literal	103	783	
MEN\$K_TSTCLA_REAL	Literal	103	781	
MEN\$K_TSTCLA_TAPE	Literal	103	779	
MEN\$K_TSTCLA_TERM	Literal	103	782	
MEN\$K_TSTCNFG_SIZE	Literal	Lib03	592	
MEN\$K_TSTCTG_CPU	Literal	103		
MEN\$K_TSTCTG_IO_ADAPTOR	Literal	103		
MEN\$K_TSTCTG_IO_CONTROLLER	Literal	103		
MEN\$K_TSTCTG_IO_UNIT	Literal	103		
MEN\$K_TSTCTG_MEMORY	Literal	103		
MEN\$K_TSTCTG_NULL	Literal	103		
MEN\$K_TSTTXT_DEVNAM_SZ	Literal	103		
MEN\$K_TSTTXT_TSTCLA_SZ	Literal	103		
MEN\$K_TSTTXT_UUTNAM_SZ	Literal	103		
MEN\$LOAD_FILE	GlobRout	857 Lib03e	83f 86f 94c	
MEN\$MENU_CLEANUP	GlobRout	1206 Lib03e		
MEN\$MENU_FNCTST_INIT	GlobRout	192 Lib03e	77f	
MEN\$MENU_TEST_INTERNAL_ERROR	Unbound		110	
ExtRout	Lib03	405c 426c 537c 917c		
MEN\$PREPTBL_INIT	ExtRout	Lib03	286c	
MEN\$SPECIFY_SELECTNO	GlobRout	718 Lib03e	81f	
MEN\$V_FUNCSUP_DATABASE_PTR	Field	Lib03	137= 504= 1241. 1247=	
MEN\$V_FUNCSUP_DATABASE_SIZE	Field	Lib03	136= 496a 1248=	
MEN\$V_FUNCSUP_DATABASE_START	Field	Lib03	139= 497a 500. 1244. 1249=	

Symbol	Type	Defined	Referenced ...
MEN\$V_FUNC SUP_DATABASE_TOTAL_SIZ	Field	Lib03 138= 498a 1243. 1246=	
MEN\$V_TEST_QUEUE_PTR_BLK_FLDS	Fieldset	Lib03 152	
MEN\$V_TQ_TABLE_NUMB_ENTRIES	Field	Lib03 154= 428= 1097. 1262=	
MEN\$V_TQ_TABLE_PTR	Field	Lib03 155= 422a 426. 1098. 1256. 1258. 1261=	
MEN\$V_TQ_TABLE_SIZE	Field	Lib03 156= 431= 1258. 1260=	
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	102	
MEN\$K_EXIT_INTERNAL_ERROR	Unbound	111	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	102 260 325 405 426 537 917	
MEN\$K_EXIT_LAST_REASON	Literal	102	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	102	
MEN\$K_EXIT_OPERATOR_STOP	Literal	102	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Unbound	121	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	102 904 929	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Unbound	119	
MEN\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	102 904 929	
MM\$K_ACTION_ADVANCE_STATE	Literal	102	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	102	
MM\$K_ACTION_BUILD_DDBS	Literal	102	
MM\$K_ACTION_BUILD_HSTS	Literal	102	
MM\$K_ACTION_CHANGE_TABLE	Literal	102	
MM\$K_ACTION_DONE_INITS	Literal	102	
MM\$K_ACTION_DO_NOTHING	Literal	102	
MM\$K_ACTION_DUMMY_3	Literal	102	
MM\$K_ACTION_DUMMY_4	Literal	102	
MM\$K_ACTION_DUMMY_5	Literal	102	
MM\$K_ACTION_DUMMY_6	Literal	102	
MM\$K_ACTION_DUMMY_7	Literal	102	
MM\$K_ACTION_DUMMY_8	Literal	102	
MM\$K_ACTION_INTERNAL_ERROR	Literal	102	
MM\$K_ACTION_LAST_ACTION	Literal	102	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	102	
MM\$K_ACTION_MENU_PROMPT	Literal	102	
MM\$K_ACTION_PRINT_MENU	Literal	102	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	102	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	102	
MM\$K_ACTION_START_AUTOSIZER	Literal	102	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	102	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	102	
MM\$K_STATE_BUILD_DDBS	Literal	102	
MM\$K_STATE_BUILD_HSTS	Literal	102	
MM\$K_STATE_CHANGE_TABLE	Literal	102	
MM\$K_STATE_DONE_INITS	Literal	102	
MM\$K_STATE_DUMMY_1	Literal	102	
MM\$K_STATE_DUMMY_2	Literal	102	
MM\$K_STATE_DUMMY_3	Literal	102	
MM\$K_STATE_DUMMY_5	Literal	102	
MM\$K_STATE_DUMMY_7	Literal	102	
MM\$K_STATE_DUMMY_8	Literal	102	
MM\$K_STATE_INTERNAL_ERROR	Literal	102	
MM\$K_STATE_LAST_STATE	Literal	102	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	102	
MM\$K_STATE_MENU_PROMPT	Literal	102	
MM\$K_STATE_PRINT_MENU	Literal	102	

Symbol	Type	Defined	Referenced	...
MM\$K_STATE_PRINT_MENU_HEADING	Literal	102		
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	102		
MM\$K_STATE_START	Literal	102		
MM\$K_STATE_START_AUTOSIZER	Literal	102		
MODNAM	Macro	Lib01 99		
NEXT_DDB	Local	1232 1280= 1289.		
NUL2ND	Macro	Lib04 102 103	237 330 379 435 477 542 839 851	
		1125 1192		
NUMB_PTABLE_ENTRIES	Bind	375 394.		
ON	Literal	Lib03 254 258 259 320 323 324		
PREPARATION_ERROR_TEXT	PTR Local	1063 1175= 1177= 1192.		
PTABLE	Register	372 398= 400. 408.		
PTABLE_PTR	Register	474 517= 518aa		
	Local	746 761=		
	Local	1069		
PTABLE_TABLE	Bind	376 398.		
PTABLE_TABLE_INDEX	Register	371 394= 396= 396. 398.		
QUEUE\$L_BLINK	Field	Lib03 131= 386= 407.		
QUEUE\$L_FLINK	Field	Lib03 130= 385= 1274. 1294= 1295=		
QUEUE_BLKPTR	Local	1235		
QUEUE_HEAD	Local	1234		
RECORD_CNT	Register	585 654= 665= 665. 673= 673. 681= 681. 689= 689. 697=		
		697. 705= 705.		
RECORD_NO	Register	584 655=		
RECORD_PTR	Register	586 657= 663. 664= 664a. 664aa 671. 672= 672a. 672aa 679.		
		680= 680a. 680aa 687. 688= 688a. 688aa 695. 696= 696a.		
		696aa 703. 704= 704a. 704aa 707.		
REMQUE	Builtin	72		
RETSIZE	Bind	834 846=		
RETURNED_ADDRESS	Local	825 836= 844a= 845. 851.		
RETURNED_SIZE	Local	824 836= 844. 846. 851.		
RMS\$FNF	Unbound	118		
	Literal	Lib04 904 929		
RMS_STATUS	MacrForm	116 118		
RUNTIME_PTR	Local	1062 1169= 1171= 1192.		
R_DATABASE	RoutForm	935 971.		
R_FILE	RoutForm	857 902. 902a. 926.		
R_FILE_DEFAULT	RoutForm	857 902. 902a. 926.		
R_SIZE	RoutForm	791 832.		
R_TEST_CLASS	RoutForm	738 749.		
SDL\$STARLET_CONCAT	Macro	Lib04 904 906		
SDL\$STARLET_OPT	Macro	Lib04 904 906		
SDL\$STARLET_REQ	Macro	Lib04 904 906		
SELECTNO_CLASS	Routine	738 776c 777c 778c 779c 780c 781c 782c 783c 784c 785c		
SELECT_NO_INDEX	Local	744 757= 769. 770= 770.		
SET_EVENT_ARGS_PTR	Local	1058 1145= 1147= 1192.		
SET_FLAGS_ARGS_PTR	Local	1057 1139= 1141= 1192.		
SIZE	Bind	832 836.		
SIZE_1	MacrForm	108 110		
SIZE_2	MacrForm	108 110		
START_QUALIFIERS_PTR	Local	1060 1157= 1159= 1192.		
STATUS	Local	894 904= 904. 919= 927. 929.		
SUPBLK\$B_STRTFRST_CNFGBLK	Field	Lib03 603a		

Symbol	Type	Defined	Referenced ...
SUPBLK\$B_TEST_CLASS	Field	Lib03 766.	
SUPBLK\$L_SUPBLK_SIZE	Field	Lib03 1016.	
SUPBLK\$T_DEVICE_NAME	Field	Lib03 985.	986
SUPBLK\$V_STATUS_INVALID	Field	Lib03 991.	
SUPBLK\$W_LEVEL	Field	Lib03 996.	1002. 1008.
SUPBLK_FOUNDED	Local	967 975=	978. 1014= 1020.
SUPBLK_PTR	Local	468 526a	529.
Register	593	600=	603aa
Local	741	762=	763. 766a.
Local	966	977=	978. 985a. 986. 991a. 996a. 1002a. 1008a. 1016= 1016a.
Local	1016.	1024.	
Local	1067		
SUPPORT_BLK	Bind	973 1024=	
SUPPORT_DATABASE	Bind	750	
SYS\$CLOSE	ExtRout	906 906c	
SYS\$OPEN	ExtRout	904 904c	
TEST_CLASS	Bind	749 766.	
TEST_START_TEXT_PTR	Local	1061 1163=	1165= 1192.
TQ\$K_ACTION_ADVANCE_STATE	Literal	102	
TQ\$K_ACTION_CHANGE_TABLE	Literal	102	
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	102	
TQ\$K_ACTION_DO_NOTHING	Literal	102	
TQ\$K_ACTION_DUMMY_3	Literal	102	
TQ\$K_ACTION_DUMMY_4	Literal	102	
TQ\$K_ACTION_DUMMY_5	Literal	102	
TQ\$K_ACTION_GET_DDB	Literal	102	
TQ\$K_ACTION_INIT_TQ	Literal	102	
TQ\$K_ACTION_INTERNAL_ERROR	Literal	102	
TQ\$K_ACTION_LAST_ACTION	Literal	102	
TQ\$K_STATE_CHANGE_TABLE	Literal	102	
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	102	
TQ\$K_STATE_DUMMY_1	Literal	102	
TQ\$K_STATE_DUMMY_2	Literal	102	
TQ\$K_STATE_DUMMY_3	Literal	102	
TQ\$K_STATE_DUMMY_4	Literal	102	
TQ\$K_STATE_DUMMY_5	Literal	102	
TQ\$K_STATE_GET_DDB	Literal	102	
TQ\$K_STATE_INIT_TQ	Literal	102	
TQ\$K_STATE_INTERNAL_ERROR	Literal	102	
TQ\$K_STATE_LAST_STATE	Literal	102	
TRUE	Literal	Lib03 1014	
TSTCNFG\$B_DIAGBLK_NO	Field	Lib03 606.	624. 633.
TSTCNFG\$B_STRTFRST_DIAGBLK	Field	Lib03 638a	
TSTCNFG_PTR	Register	592 603=	606a. 624a. 633a. 638aa
TSTQ_SIZE	Local	365 423a	426. 428. 431.
TSTQ_TBL_ENTRIES	Local	1065 1097=	1104.
TSTQ_TBL_INDEX	Local	1064 1096=	1104. 1105. 1199= 1199.
TSTQ_TBL_PTR	Local	1066 1098=	1105a.
TYPE	MacrForm	108 110	
T_DUMP_HST	Bind	1081 1192a	
T_HST_ENTRY_NULL	Bind	1075 1133a	1139a 1145a 1151a 1157a 1163a 1169a 1175a
T_HST_TITLE	Bind	1078 1125a	
XAB	Local	897 897=	902a 908.

Symbol	Type	Defined	Referenced ...
XAB\$C_FHC	Literal	Lib04	897
XAB\$C_FHCLEN	Literal	Lib04	897
XAB\$L_EBK	Macro	Lib04	908
XAB\$W_FFB	Macro	Lib04	908

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]MENTSTINI.B32;1
2	Module	MENTSTINI
62	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
64	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
66	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
68	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
1306	Eludom	MENTSTINI

KEY TO REFERENCE TYPE FLAGS

- . Fetch
- = Store
- c Routine call
- a Address use
- @ Indirect use
- e External, external routine, or external literal declaration
- f Forward or forward routine declaration
- h Condition handler enabling
- m Map declaration
- u Undeclare declaration

Library Statistics					
File	Symbols			Pages Processing	
	Total	Loaded	Percent	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	2	0	46	00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	23	2	94	00:00.2
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	95	19	62	00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			64	0
				1000	00:04.2

ZZ-ENSAB-2.0 MEN\$Menu_Cleanup Routine L 14
MENTSTINI CRD MENU - Test Initialization 19-Sep-1985 17:23:34 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame L14 Sequence 1622
V01.4 MEN\$Menu_Cleanup Routine 19-Sep-1985 12:33:27 [DS.CRD.V020]MENTSTINI.B32;1 (6) Page 66

: COMMAND QUALIFIERS

: BLISS MENTSTINI.B32/LIST=MENTSTINI.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MENTSTINI.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

: Size: 2051 code + 783 data bytes

: Run Time: 01:02.4

: Elapsed Time: 01:13.0

: Lines/CPU Min: 1255

: Lexemes/CPU-Min: 62185

: Memory Used: 384 pages

: Compilation Complete

ZZ-ENSAB-2.0 CRD MENU - Test Queue Tables
CRD MENU - Test Queue Tables 19-Sep-1985 17:24:51 VAX-11 Bliss-32 V4.1-746
3-Jan-1985 17:02:39 [DS.CRD.V020]MENTSTQ.B32;1 (1)

M 14
19-Sep-1985

Fiche 8 Frame M14
Page 1

Sequence 1623

```
: 0001 0 xTITLE 'CRD MENU - Test Queue Tables'
: 0002 0 MODULE MENTSTQ (
: 0003 0 IDENT = '01-00'
: 0004 0 ) =
: 0005 0 !
: 0006 0 ! COPYRIGHT (C) 1982
: 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
: 0008 0 !
: 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
: 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
: 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
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: 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
: 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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: 0020 0 !
: 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
: 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
: 0023 0 !
```

: 0024 0 !*
: 0025 0 ! FACILITY:
: 0026 0 !
: 0027 0 ! ABSTRACT:
: 0028 0 !
: 0029 0 ! ENVIRONMENT:
: 0030 0 !
: 0031 0 ! AUTHOR:
: 0032 0 !
: 0033 0 ! John Ciukaj May-1982
: 0034 0 !
: 0035 0 ! CREATION DATE:
: 0036 0 !
: 0037 0 ! VERSION:
: 0038 0 !
: 0039 0 ! Modified by:
: 0040 0 !
: 0041 0 ! --

```
: 0042 0 %SBTTL 'Libraries'  
: 0043 1 BEGIN  
: 0044 1  
: 0045 1  
: 0046 1 LIBRARY '$DS';  
: 0047 1 LIBRARY '$DIAG';  
: 0048 1 LIBRARY '$CRD';  
: 0049 1 LIBRARY 'SYS$LIBRARY:LIB';
```



```
; 0050 1 xSBTTL 'Forward-External Routines'
; 0051 1
; 0052 1 FORWARD ROUTINE
; 0053 1 MEN$BIdTstQ_FncTst_All : ADDRESSING_MODE (LONG_RELATIVE),
; 0054 1 MEN$BIdTstQ_FncTst_Dev : ADDRESSING_MODE (LONG_RELATIVE);
```

```
; 0055 1 xSBTTL 'Psect Definitions'
; 0056 1
; 0057 1 PSECT
; 0058 1 Plit = Data (NoExecute, Share, NoWrite, Addressing_Mode (Long_Relative));
; 0059 1 PSECT
; 0060 1 Code = Code (Execute, Share, NoWrite, Addressing_Mode (Long_Relative), PIC);
; 0061 1 PSECT
; 0062 1 Own = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
; 0063 1 PSECT
; 0064 1 Global = Work (NoExecute, NoShare, Write, Addressing_Mode (Long_Relative));
```

ZZ-ENSAB-2.0 Module-Global Static Storage E 15
MENTSTQ CRD MENU - Test Queue Tables 19-Sep-1985 17:24:51 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame E15 Sequence 1628
01-00 Module-Global Static Storage 3-Jan-1985 17:02:39 [DS.CRD.V020]MENTSTQ.B32;1 Page 6 (6)

: 0065 1 xSBTTL 'Module-Global Static Storage'
: 0066 1
: 0067 1 Modnam ('MENTSTQ'); ! Module Name for Errsup Macro

```
; 0068 1 xSBTTL 'Macro - Literal Definitions'
; 0069 1
; 0070 1 $CRD_Literals;
; 0071 1 $MEN_Literals;
```

```
; 0072 1 xSBTTL 'Test Category Table'
; 0073 1
; 0074 1 BIND
; 0075 1     MEN$GA_TstCtgTbl =
; 0076 1     PLIT (
; 0077 1     MEN$K_TstCtg_CPU,
; 0078 1     MEN$K_TstCtg_Memory,
; 0079 1     MEN$K_TstCtg_IO_Adaptor,
; 0080 1     MEN$K_TstCtg_IO_Controller,
; 0081 1     MEN$K_TstCtg_IO_Unit
; 0082 1     ) : VECTOR [, LONG],
; 0083 1
; 0084 1     MEN$GL_TstCtgTbl_Entries = (MEN$GA_TstCtgTbl - 4);
; 0085 1
```

```
; 0086 1 xSBTTL 'MEN$BldTstQ_FncTst_All Routine'
; 0087 1
; 0088 1 GLOBAL ROUTINE MEN$BldTstQ_FncTst_All =
; 0089 1
; 0090 1 !*
; 0091 1 ! FUNCTIONAL DESCRIPTION:
; 0092 1 !
; 0093 1 ! Builds a Test Queue DDB pointer Table for all Supported
; 0094 1 ! hardware associated with CRD MENU Functional Testing.
; 0095 1 ! The order of the DDB pointers starting at the first
; 0096 1 ! DDB pointer entry is the order in which device testing is
; 0097 1 ! expected to execute.
; 0098 1 !
; 0099 1 ! Table entries are entered by searching for DDB's on the basis of
; 0100 1 ! Test Category and Test Class determined by the
; 0101 1 ! Device Test Category table and the Test Menu Table respectively.
; 0102 1 !
; 0103 1 ! INPUT PARAMETERS
; 0104 1 !
; 0105 1 ! OUTPUT PARAMETERS
; 0106 1 !
; 0107 1 ! IMPLICIT INPUTS
; 0108 1 !
; 0109 1 ! DDB Database pointed to by MEN$GA_DDB_Head.
; 0110 1 !
; 0111 1 ! Test Queue table pointed to by MEN$GA_Test_Queue. It is assumed that
; 0112 1 ! the table consists of a minimum number of longwords equal to the
; 0113 1 ! number of DDB's in the DDB Database plus one(1).
; 0114 1 !
; 0115 1 ! Device Test Category Table at MEN$GA_TstCtgTbl.
; 0116 1 !
; 0117 1 ! Test Menu Table at MEN$GA_TMTbl specifying Device Test Class.
; 0118 1 !
; 0119 1 ! EXPLICIT OUTPUTS
; 0120 1 !
; 0121 1 ! A DDB will only be entered once in the table.
; 0122 1 !
; 0123 1 ! The Table entries are valid until the first null entry.
; 0124 1 !
; 0125 1 ! The last entry of the Table will always be a null.
; 0126 1 !
; 0127 1 ! SIDE EFFECTS
; 0128 1 !
; 0129 1 ! Test Queue Table is initialized with nulls at the start of the routine
; 0130 1 !
; 0131 1 ! COMPLETION CODES
; 0132 1 !
; 0133 1 ! CRD$K_Success DDB pointers have been entered (Note: If there are
; 0134 1 ! more DDB's to be entered than available slots this
; 0135 1 ! routine will return with CRD$K_Success having filled
; 0136 1 ! all available slots).
; 0137 1 ! --
```

```

: 0138 2 BEGIN
: 0139 2   REGISTER
: 0140 2   TstCla,
: 0141 2   TstCtg,
: 0142 2   TstQ_Tbl_Index,
: 0143 2   TstQ_Tbl_Entries,
: 0144 2   TstQ_Tbl_Ptr : REF VECTOR [, LONG],
: 0145 2   TstCtg_Tbl_Index,
: 0146 2   TMTbl_Index,
: 0147 2   Queue_BlkPtr : REF $MEN_Queue_Link_ATTR,
: 0148 2   DDB_Ptr : REF Device_Data_Block_Structure,
: 0149 2   SupBlk_Ptr : REF $MEN_SupBlk_Attr;
: 0150 2
: 0151 2   !+
: 0152 2   ! Initialize the Test Queue Table with nulls
: 0153 2   !-
: 0154 2
: 0155 2   CH$FILL (0, .MEN$GA_Test_Queue [MEN$V_TQ_Table_Size], .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]);
: 0156 2
: 0157 2   TstQ_Tbl_Index = 0;
: 0158 2   TstQ_Tbl_Entries = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Numb_Entries];
: 0159 2   TstQ_Tbl_Ptr = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
: 0160 2
: 0161 2   !+
: 0162 2   ! Get a test category until Test Category Table is ended
: 0163 2   !-
: 0164 2
: 0165 2   TstCtg_Tbl_Index = -1;
: 0166 2
: 0167 2   WHILE ((TstCtg_Tbl_Index = .TstCtg_Tbl_Index + 1) LSS .MEN$GL_TstCtgTbl_Entries) DO
: 0168 3   BEGIN
: 0169 3     TstCtg = .MEN$GA_TstCtgTbl [.TstCtg_Tbl_Index];
: 0170 3
: 0171 3   !+
: 0172 3   ! Get a test class until the Test Menu Table is ended
: 0173 3   !-
: 0174 3
: 0175 3   TMTbl_Index = -1;
: 0176 3
: 0177 3   WHILE ((TMTbl_Index = .TMTbl_Index + 1) LSS MEN$GK_TMTbl_Entries) DO
: 0178 4   BEGIN
: 0179 4     TstCla = .MEN$GA_TMTbl [.TMTbl_Index, TMTbl$B_Entry_TstCla];
: 0180 4
: 0181 4   !+
: 0182 4   ! Find all devices (DDB's) which are supported and represent
: 0183 4   ! the Test Category and Test Class specified and enter into the
: 0184 4   ! the Test Queue Table. Always leave the last entry of the table null.
: 0185 4   ! If the last entry is reached abort the routine.
: 0186 4   !-
: 0187 4
: 0188 4   Queue_BlkPtr = MEN$GA_DDB Head;
: 0189 4
: 0190 5   WHILE (((Queue_BlkPtr = .Queue_BlkPtr [Queue$I_Flink]) NEQ MEN$GA_DDB_Head) AND
: 0191 4     (.TstQ_Tbl_Index LSS (.TstQ_Tbl_Entries - 1))) DO
: 0192 5   BEGIN
  
```

```

; 0193 5 DDB_Ptr = .Queue_BlkPtr;
; 0194 5
; 0195 5 IF (SupBlk_Ptr = .DDB_Ptr [CRD$K_DDB_SupBlk_Block_Ptr]) NEQ 0
; 0196 5 THEN
; 0197 5 IF (.SupBlk_Ptr [SupBlk$B_Test_Category] EQL .TstCtg) AND
; 0198 6 (.SupBlk_Ptr [SupBlk$B_Test_Class] EQL .TstCla)
; 0199 5 THEN
; 0200 6 BEGIN
; 0201 6 TstQ_Tbl_Ptr [.TstQ_Tbl_Index] = .DDB_Ptr;
; 0202 6 TstQ_Tbl_Index = .TstQ_Tbl_Index + 1;
; 0203 5 END;
; 0204 4 END; ! WHILE ... DO ...
; 0205 3 END; ! WHILE ... DO ...
; 0206 2 END; ! WHILE ... DO ...
; 0207 2 RETURN (CRD$K_Success);
; 0208 1 END;

```

```

.TITLE MENTSTQ CRD MENU - Test Queue Tables
.IDENT \01-00\

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

51 54 53 54 4E 45 4D 07 00000 P.AAA: .ASCII <7>\MENTSTQ\ ;
00000005 00008 .LONG 5 ;
00000005 00000004 00000003 00000002 00000001 0000C P.AAB: .LONG 1, 2, 3, 4, 5 ;

```

```

$MODULE- P.AAA
MEN$GA_TSTCTGTBL= P.AAB
MEN$GL_TSTCTGTBL_ENTRIES=
P.AAB-4
.EXTRN MEN$BLDTSTQ_FNCTST_ALL
.EXTRN MEN$BLDTSTQ_FNCTST_DEV
.EXTRN MEN$GA_TEST_QUEUE
.EXTRN MEN$GA_TMTBL, MEN$GA_DDB_HEAD

```

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

```

07FC 00000 .ENTRY MEN$BLDTSTQ_FNCTST_ALL, Save R2,R3,R4,R5,- ; 0088
R6,R7,R8,R9,R10 ;
00000000G EF 00 6E 00 2C 00002 MOVCS #0, (SP), #0, MEN$GA_TEST_QUEUE+8, - ; 0155
00000000G FF 0000B @MEN$GA_TEST_QUEUE+4 ;
52 D4 00010 CLRL TSTQ_TBL_INDEX ; 0157
53 00000000G EF 7D 00012 MOVQ MEN$GA_TEST_QUEUE, TSTQ_TBL_ENTRIES ; 0158
55 01 CE 00019 MNEGL #1, TSTCTG_TBL_INDEX ; 0165
5E 11 0001C BRB 6$ ; 0167
51 00000000'EF45 DO 0001E 1$: MOVL MEN$GA_TSTCTGTBL[TSTCTG_TBL_INDEX], TSTCTG ; 0169
56 01 CE 00026 MNEGL #1, TMTBL_INDEX ; 0175
4A 11 00029 BRB 5$ ; 0177
00000000GEF46 3F 0002B 2$: PUSHAW MEN$GA_TMTBL+1[TMTBL_INDEX] ; 0179
50 9E 9A 00032 MOVZBL @ (SP)+, TSTCLA ;
57 00000000G EF 9E 00035 MOVAB MEN$GA_DDB_HEAD, QUEUE_BLKPTR ; 0188
1F 11 0003C BRB 4$ ; 0190
58 57 DO 0003E 3$: MOVL QUEUE_BLKPTR, DDB_PTR ; 0193
59 20 A8 DO 00041 MOVL 32(DDB_PTR), SUPBLK_PTR ; 0195

```



```

    16 13 00045 BEQL 4$
51 10 A9 08 00 ED 00047 ; CMPZV #0, #8, 16(SUPBLK_PTR), TSTCTG ; 0197
    0E 12 0004D BNEQ 4$
50 11 A9 08 00 ED 0004F ; CMPZV #0, #8, 17(SUPBLK_PTR), TSTCLA ; 0198
    06 12 00055 BNEQ 4$
6442 58 D0 00057 MOVL DDB_PTR, (TSTQ_TBL_PTR)[TSTQ_TBL_INDEX] ; 0201
    52 D6 0005B INCL TSTQ_TBL_INDEX ; 0202
    57 67 D0 0005D 4$: MOVL (QUEUE_BLKPTR), QUEUE_BLKPTR ; 0190
5A 00000000G EF 9E 00060 MOVAB MEN$GA_DDB_HEAD, R10 ;
5A 57 D1 00067 CMPL QUEUE_BLKPTR, R10 ;
09 13 0006A BEQL 5$
5A FF A3 9E 0006C MOVAB -1(R3), R10 ; 0191
5A 52 D1 00070 CMPL TSTQ_TBL_INDEX, R10 ;
C9 19 00073 BLSS 3$
56 D6 00075 5$: INCL TMTBL_INDEX ; 0177
08 56 D1 00077 CMPL TMTBL_INDEX, #11 ;
AF 19 0007A BLSS 2$
55 D6 0007C 6$: INCL TSTCTG_TBL_INDEX ; 0167
00000000' EF 55 D1 0007E CMPL TSTCTG_TBL_INDEX, MEN$GL_TSTCTGTBL_ENTRIES ;
97 19 00085 BLSS 1$
50 01 D0 00087 MOVL #1, R0 ; 0207
04 0008A RET ; 0208
  
```

; Routine Size: 139 bytes, Routine Base: CODE + 0000

ZZ-ENSAB-2.0 MEN\$BIdTstQ_FncTst_All Routine L 15
MENTSTQ CRD MENU - Test Queue Tables 19-Sep-1985 17:24:51 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame L15
01-00 MEN\$BIdTstQ_FncTst_All Routine 3-Jan-1985 17:02:39 [DS.CRD.V020]MENTSTQ.B32;1 Page 13 (11)

```
: 0209 1
: 0210 1 xSBTTL 'MEN$BIdTstQ_FncTst_Dev Routine'
: 0211 1
: 0212 1 GLOBAL ROUTINE MEN$BIdTstQ_FncTst_Dev ( I_DDB ) =
: 0213 1
: 0214 1 !**
: 0215 1 ! FUNCTIONAL DESCRIPTION:
: 0216 1 !
: 0217 1 !     Builds a Test Queue DDB pointer Table for the supported
: 0218 1 !     hardware device specified by the DDB and associated
: 0219 1 !     with CRD MENU Functional Testing.
: 0220 1 !
: 0221 1 !
: 0222 1 ! INPUT PARAMETERS
: 0223 1 !
: 0224 1 !     I_DDB  Address of DDB
: 0225 1 !
: 0226 1 ! OUTPUT PARAMETERS
: 0227 1 !
: 0228 1 ! IMPLICIT INPUTS
: 0229 1 !
: 0230 1 !     Test Queue table pointed to by MEN$GA_Test_Queue.  It is assumed that
: 0231 1 !     the table consists of a minimum of two(2) longwords .
: 0232 1 !
: 0233 1 ! EXPLICIT OUTPUTS
: 0234 1 !
: 0235 1 !     Only one table entry is entered.
: 0236 1 !
: 0237 1 ! SIDE EFFECTS
: 0238 1 !
: 0239 1 !     Test Queue Table is nitialized with nulls at the beginning of the routine
: 0240 1 !
: 0241 1 ! COMPLETION CODES
: 0242 1 !
: 0243 1 !     CRD$K_Success
: 0244 1 ! --
```

```

; 0245 2 BEGIN
; 0246 2 LOCAL
; 0247 2 TstQ_Tbl_Ptr : REF VECTOR [, LONG];
; 0248 2
; 0249 2 BIND
; 0250 2 DDB = .I_DDB;
; 0251 2
; 0252 2 CH$FILL (0, .MEN$GA_Test_Queue [MEN$V_TQ_Table_Size], .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr]);
; 0253 2 ! Fill Table with nulls
; 0254 2
; 0255 2 TstQ_Tbl_Ptr = .MEN$GA_Test_Queue [MEN$V_TQ_Table_Ptr];
; 0256 2 ! Point to Hardware Support Table
; 0257 2
; 0258 2 TstQ_Tbl_Ptr [0] = DDB; ! Insert DDB pointer
; 0259 2
; 0260 2 RETURN (CRD$K_Success);
; 0261 1 END;

```

```

00000000G 003C 00000 .ENTRY MENSBLDTSTQ_FNCTST_DEV, Save R2,R3,R4,R5 ; 0212
00000000G EF 00 6E 00 2C 00002 MOVCS #0, (SP), #0, MEN$GA_TEST_QUEUE+8, - ; 0252
00000000G FF 0000B @MEN$GA_TEST_QUEUE+4 ;
50 00000000G EF D0 00010 MOVL MEN$GA_TEST_QUEUE+4, TSTQ_TBL_PTR ; 0255
60 04 AC D0 00017 MOVL I_DDB, (TSTQ_TBL_PTR) ; 0258
50 01 D0 0001B MOVL #1, R0 ; 0260
04 0001E RET ; 0261

```

; Routine Size: 31 bytes, Routine Base: CODE + 008B

; 0262 1 END
 ; 0263 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
DATA	32	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	170	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
\$CRD_LITERALS	Macro	Lib03	70	
\$EQLST	Macro	Lib04	70	71
\$ER	Comptime	67		
\$MEN_LITERALS	Macro	Lib03	71	
\$MEN_QUEUE_LINK_ATTR	Macro	Lib03	147	
\$MEN_QUEUE_LINK_FLD	Fieldset	Lib03	147	
\$MEN_SUPBLK_ATTR	Macro	Lib03	149	
\$MEN_SUPBLK_FLD	Fieldset	Lib03	149	
\$MODULE	Bind	67		
AUTOSK_EXIT_AUTOSIZER_ERROR	Literal		70	
AUTOSK_EXIT_CONTROL_C	Literal		70	
AUTOSK_EXIT_DUMMY_2	Literal		70	
AUTOSK_EXIT_DUMMY_3	Literal		70	
AUTOSK_EXIT_ERRORS_COMPLETE	Literal		70	
AUTOSK_EXIT_ERRORS_INCOMPLETE	Literal		70	
AUTOSK_EXIT_INTERNAL_ERROR	Literal		70	
AUTOSK_EXIT_INV_BASE_SYSTEM	Literal		70	
AUTOSK_EXIT_LAST_REASON	Literal		70	70
AUTOSK_EXIT_NOERRORS_COMPLETE	Literal		70	
AUTOSK_EXIT_NOERRORS_INCOMPLETE	Literal		70	
AUTOSK_EXIT_NOERRORS_PREP	Literal		70	
CRDSK_ACTION_EQL_DO_NOTHING	Literal		70	
CRDSK_ACTION_RANGE_ERROR	Literal		70	
CRDSK_ADVANCE_DIAGNOSTIC	Literal		70	
CRDSK_ADVANCE_GENERAL_COM	Literal		70	
CRDSK_ADVANCE_STATE	Literal		70	
CRDSK_ALLOCATION_ERROR	Literal		70	
CRDSK_ASSIGN_PTABLE_PTRS	Literal		70	
CRDSK_AUTOSIZER_ERROR	Literal		70	
CRDSK_AUTOSIZER_SET_FLAGS	Literal		70	
CRDSK_BAD_ACTION_NUMBER	Literal		70	
CRDSK_BAD_TYPECODE_ERROR	Literal		70	
CRDSK_BASE_SYSTEM_IDC	Literal		70	
CRDSK_BASE_SYSTEM_LESI	Literal		70	

Symbol	Type	Defined	Referenced ...
CRD\$K_BASE_SYSTEM_NULL	Literal	70	
CRD\$K_BASE_SYSTEM_UDA_0	Literal	70	
CRD\$K_BASE_SYSTEM_UDA_1	Literal	70	
CRD\$K_BASE_SYSTEM_UDA_2	Literal	70	
CRD\$K_BASE_SYSTEM_UDA_3	Literal	70	
CRD\$K_CRD_INITIALIZATION	Literal	70	
CRD\$K_CREATE_HST	Literal	70	
CRD\$K_DATA_LENGTH_ERROR	Literal	70	
CRD\$K_DDB_AUTO_SUPPORT_ENTRY	Literal	70	70
CRD\$K_DDB_BLINK	Literal	70	
CRD\$K_DDB_FLINK	Literal	70	
CRD\$K_DDB_LAST_ENTRY	Literal	70	
CRD\$K_DDB_MEMORY_SIZE	Literal	70	
CRD\$K_DDB_MENU_DEVICE_NUMB	Literal	70	
CRD\$K_DDB_MENU_SUPPORT_ENTRY	Literal	70	70
CRD\$K_DDB_MENU_SUPPORT_SIZE	Literal	70	
CRD\$K_DDB_NUMB_SUPPORT_TABLES	Literal	70	70
CRD\$K_DDB_PTABLE_ENTRY	Literal	70	
CRD\$K_DDB_STATUS	Literal	70	
CRD\$K_DDB_SUPBLK_BLOCK_PTR	Literal	70	195
CRD\$K_DEVICE_NAME	Literal	70	
CRD\$K_DIAGNOSTIC_ERROR	Literal	70	
CRD\$K_DIAGNOSTIC_NAME	Literal	70	
CRD\$K_DONE_GENERAL_COMS	Literal	70	
CRD\$K_DO_NOTHING	Literal	70	
CRD\$K_DUMMY_10	Literal	70	
CRD\$K_DUMMY_11	Literal	70	
CRD\$K_DUMMY_12	Literal	70	
CRD\$K_DUMMY_13	Literal	70	
CRD\$K_DUMMY_3	Literal	70	
CRD\$K_DUMMY_4	Literal	70	
CRD\$K_DUMMY_5	Literal	70	
CRD\$K_DUMMY_6	Literal	70	
CRD\$K_DUMMY_7	Literal	70	
CRD\$K_DUMMY_8	Literal	70	
CRD\$K_DUMMY_9	Literal	70	
CRD\$K_EXIT_CRD	Literal	70	
CRD\$K_HOOK_POINT	Literal	70	
CRD\$K_HS_INTERNAL_ERROR	Literal	70	
CRD\$K_IDC_EVDLB	Literal	70	
CRD\$K_IDC_EVDLC	Literal	70	
CRD\$K_IDC_EVDLD	Literal	70	
CRD\$K_IDC_EVRAD_0	Literal	70	
CRD\$K_IDC_EVRAD_1	Literal	70	
CRD\$K_IDC_LAST_DIAGNOSTIC	Literal	70	70
CRD\$K_INTERNAL_ERROR	Literal	70	
CRD\$K_LAST_ACTION_ROUTINE	Literal	70	
CRD\$K_LAST_ENTRY	Literal	70	
CRD\$K_LAST_FUNCTION	Literal	70	
CRD\$K_LAST_HOOK_POINT	Literal	70	
CRD\$K_LAST_INTERNAL_ERROR	Literal	70	70
CRD\$K_LAST_TYPE	Literal	70	
CRD\$K_LESI_ENWCA	Literal	70	

Symbol	Type	Defined	Referenced ...
CRD\$K_LESI_EVRMB_0	Literal	70	
CRD\$K_LESI_EVRMB_1	Literal	70	
CRD\$K_LESI_LAST_DIAGNOSTIC	Literal	70	
CRD\$K_LEVEL_4_PASSED	Literal	70	
CRD\$K_LOAD_AUTOSIZER	Literal	70	
CRD\$K_LOAD_ERROR	Literal	70	
CRD\$K_LOAD_GENERAL_COM	Literal	70	
CRD\$K_LOAD_LOAD_COM	Literal	70	
CRD\$K_LOAD_SELECT_COM	Literal	70	
CRD\$K_LOAD_SET_EVENT_COM	Literal	70	
CRD\$K_LOAD_SET_FLAGS_COM	Literal	70	
CRD\$K_LOAD_START_COM	Literal	70	
CRD\$K_LOAD_SUP_FILE	Literal	70	
CRD\$K_MM_INTERNAL_ERROR	Literal	70	
CRD\$K_NEW_LINE	Literal	70	
CRD\$K_PREPARATION_ERROR	Literal	70	
CRD\$K_PREPARATION_ERROR_TEXT	Literal	70	
CRD\$K_RUNTIME	Literal	70	
CRD\$K_SAME_LINE	Literal	70	
CRD\$K_SET_EVENT_ARGS	Literal	70	
CRD\$K_SET_FLAGS_ARGS	Literal	70	
CRD\$K_SET_UP_DIAGNOSTIC	Literal	70	
CRD\$K_START	Literal	70	
CRD\$K_START_AUTOSIZER	Literal	70	
CRD\$K_START_ERROR	Literal	70	
CRD\$K_START_QUALIFIERS	Literal	70	
CRD\$K_STAR_LINE	Literal	70	
CRD\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	70	
CRD\$K_STATE_ADVANCE_GENERAL_COM	Literal	70	
CRD\$K_STATE_ASSIGN_PTABLE_PTRS	Literal	70	
CRD\$K_STATE_AUTOSIZER_ERROR	Literal	70	
CRD\$K_STATE_AUTOSIZER_RUNNING	Literal	70	
CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal	70	
CRD\$K_STATE_DIAGNOSTIC_ERROR	Literal	70	
CRD\$K_STATE_DIAGNOSTIC_RUNNING	Literal	70	
CRD\$K_STATE_DONE_DIAGNOSTICS	Literal	70	
CRD\$K_STATE_DONE_GENERAL_COMS	Literal	70	
CRD\$K_STATE_DUMMY_1	Literal	70	
CRD\$K_STATE_DUMMY_10	Literal	70	
CRD\$K_STATE_DUMMY_12	Literal	70	
CRD\$K_STATE_DUMMY_13	Literal	70	
CRD\$K_STATE_DUMMY_2	Literal	70	
CRD\$K_STATE_DUMMY_3	Literal	70	
CRD\$K_STATE_DUMMY_4	Literal	70	
CRD\$K_STATE_DUMMY_6	Literal	70	
CRD\$K_STATE_DUMMY_7	Literal	70	
CRD\$K_STATE_DUMMY_8	Literal	70	
CRD\$K_STATE_EXIT_CRD	Literal	70	
CRD\$K_STATE_INTERNAL_ERROR	Literal	70	
CRD\$K_STATE_LAST_STATE	Literal	70	
CRD\$K_STATE_LEVEL_4_PASSED	Literal	70	
CRD\$K_STATE_LOAD_AUTOSIZER	Literal	70	
CRD\$K_STATE_LOAD_ERROR	Literal	70	

Symbol	Type	Defined	Referenced ...
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	70	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	70	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	70	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	70	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	70	
CRD\$K_STATE_LOAD_START_COM	Literal	70	
CRD\$K_STATE_PREPARATION_ERROR	Literal	70	
CRD\$K_STATE_SET_UP_DIAGNOSTIC	Literal	70	
CRD\$K_STATE_START	Literal	70	
CRD\$K_STATE_START_AUTOSIZER	Literal	70	
CRD\$K_STATE_START_ERROR	Literal	70	
CRD\$K_SUCCESS	Literal	Lib03 207	260
CRD\$K_TEST_START_TEXT	Literal	70	
CRD\$K_TQ_INTERNAL_ERROR	Literal	70	
CRD\$K_TYPECODE	Literal	70	
CRD\$K_UDA_0_EVDLB	Literal	70	
CRD\$K_UDA_0_EVDLC	Literal	70	
CRD\$K_UDA_0_EVDLD	Literal	70	
CRD\$K_UDA_0_EVRLA_0	Literal	70	
CRD\$K_UDA_0_LAST_DIAGNOSTIC	Literal	70	
CRD\$K_UDA_1_EVDLB	Literal	70	
CRD\$K_UDA_1_EVDLC	Literal	70	
CRD\$K_UDA_1_EVDLD	Literal	70	
CRD\$K_UDA_1_EVRLA_0	Literal	70	
CRD\$K_UDA_1_EVRLA_1	Literal	70	
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	70	
CRD\$K_UDA_2_EVDLB	Literal	70	
CRD\$K_UDA_2_EVDLC	Literal	70	
CRD\$K_UDA_2_EVDLD	Literal	70	
CRD\$K_UDA_2_EVRLA_0	Literal	70	
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	70	
CRD\$K_UDA_3_EVDLB	Literal	70	
CRD\$K_UDA_3_EVDLC	Literal	70	
CRD\$K_UDA_3_EVDLD	Literal	70	
CRD\$K_UDA_3_EVRLA_0	Literal	70	
CRD\$K_UDA_3_EVRLA_1	Literal	70	
CRD\$K_UDA_3_LAST_DIAGNOSTIC	Literal	70	
DDB	Bind	250 258a	
DDB_PTR	Register	148 193= 195a.	201.
DEVICE_DATA_BLOCK_STRUCTURE	Structur	Lib03 148	
GET1ST	Macro	Lib04 70	71
GET2ND	Unbound	70	71
HS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	70	
HS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	70	
HS\$K_ACTION_ADVANCE_STATE	Literal	70	
HS\$K_ACTION_CHANGE_TABLE	Literal	70	
HS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	70	
HS\$K_ACTION_DONE_GENERAL_COMS	Literal	70	
HS\$K_ACTION_DO_NOTHING	Literal	70	
HS\$K_ACTION_DUMMY_3	Literal	70	
HS\$K_ACTION_DUMMY_4	Literal	70	
HS\$K_ACTION_DUMMY_5	Literal	70	
HS\$K_ACTION_DUMMY_6	Literal	70	

Symbol	Type	Defined	Referenced ...

HSSK_ACTION_INIT_HS	Literal	70	
HSSK_ACTION_INTERNAL_ERROR	Literal	70	
HSSK_ACTION_LAST_ACTION	Literal	70	
HSSK_ACTION_LOAD_ERROR	Literal	70	
HSSK_ACTION_LOAD_GENERAL_COM	Literal	70	
HSSK_ACTION_LOAD_LOAD_COM	Literal	70	
HSSK_ACTION_LOAD_SELECT_COM	Literal	70	
HSSK_ACTION_LOAD_SET_EVENT_COM	Literal	70	
HSSK_ACTION_LOAD_SET_FLAGS_COM	Literal	70	
HSSK_ACTION_LOAD_START_COM	Literal	70	
HSSK_ACTION_PREPARATION_ERROR	Literal	70	
HSSK_ACTION_START_ERROR	Literal	70	
HSSK_STATE_ADVANCE_DIAGNOSTIC	Literal	70	
HSSK_STATE_ADVANCE_GENERAL_COM	Literal	70	
HSSK_STATE_CHANGE_TABLE	Literal	70	
HSSK_STATE_DIAGNOSTIC_ERROR	Literal	70	
HSSK_STATE_DIAGNOSTIC_RUNNING	Literal	70	
HSSK_STATE_DONE_GENERAL_COMS	Literal	70	
HSSK_STATE_DUMMY_1	Literal	70	
HSSK_STATE_DUMMY_2	Literal	70	
HSSK_STATE_DUMMY_3	Literal	70	
HSSK_STATE_DUMMY_4	Literal	70	
HSSK_STATE_DUMMY_6	Literal	70	
HSSK_STATE_INIT_HS	Literal	70	
HSSK_STATE_INTERNAL_ERROR	Literal	70	
HSSK_STATE_LAST_STATE	Literal	70	
HSSK_STATE_LOAD_ERROR	Literal	70	
HSSK_STATE_LOAD_GENERAL_COM	Literal	70	
HSSK_STATE_LOAD_LOAD_COM	Literal	70	
HSSK_STATE_LOAD_SELECT_COM	Literal	70	
HSSK_STATE_LOAD_SET_EVENT_COM	Literal	70	
HSSK_STATE_LOAD_SET_FLAGS_COM	Literal	70	
HSSK_STATE_LOAD_START_COM	Literal	70	
HSSK_STATE_PREPARATION_ERROR	Literal	70	
HSSK_STATE_START_ERROR	Literal	70	
I_DDB	RoutForm	212 250.	
MEN\$BLDTSTQ_FNCTST_ALL	GlobRout	88 Lib03e 53f	
MEN\$BLDTSTQ_FNCTST_DEV	GlobRout	212 Lib03e 54f	
MEN\$GA_DDB_HEAD	External Lib03	188a 190	
MEN\$GA_TEST_QUEUE	External Lib03	155. 155a= 158. 159. 252. 252a= 255.	
MEN\$GA_TMTBL	External Lib03	179.	
MEN\$GA_TSTCTGTBL	Bind	75 84a 169.	
MEN\$GK_TEST_QUEUE	Literal	71	
MEN\$GK_TMTBL_ENTRIES	Literal Lib03	177	
MEN\$GL_TSTCTGTBL_ENTRIES	Bind	84 167.	
MEN\$K_CNTLC_SEL_CONTINUE	Literal	71	
MEN\$K_CNTLC_SEL_EXIT	Literal	71	
MEN\$K_CNTLC_SEL_FTMENU	Literal	71	
MEN\$K_CNTLC_SEL_LAST_ENTRY	Literal	71	
MEN\$K_DEVTSTPREP_1	Literal	71	
MEN\$K_DEVTSTPREP_2	Literal	71	
MEN\$K_DEVTSTPREP_3	Literal	71	
MEN\$K_DEVTSTPREP_4	Literal	71	

Symbol	Type	Defined	Referenced ...
MEN\$K_DEVSTSTPREP_5	Literal	71	
MEN\$K_DEVSTSTPREP_6	Literal	71	
MEN\$K_DEVSTSTPREP_7	Literal	71	
MEN\$K_DEVSTSTPREP_NULL	Literal	71	
MEN\$K_FTHRET_EXIT	Literal	71	
MEN\$K_FTHRET_FAILURE	Literal	71	
MEN\$K_FTHRET_MENU	Literal	71	
MEN\$K_FTHRET_TEST	Literal	71	
MEN\$K_FTHSEL_EXIT	Literal	71	
MEN\$K_FTHSEL_FNCTST_ALL	Literal	71	
MEN\$K_FTHSEL_LAST_ENTRY	Literal	71	
MEN\$K_FTHSEL_PREP	Literal	71	
MEN\$K_FTHSEL_SYSTEM_HDWR	Literal	71	
MEN\$K_FTHSEL_TEST	Literal	71	
MEN\$K_HS_STATE_TABLE	Literal	70	
MEN\$K_MM_STATE_TABLE	Literal	70	
MEN\$K_PREP_ERROR_TEXT_LEN	Literal	71	
MEN\$K_QUEUE_LINK_SIZE	Literal	Lib03	147
MEN\$K_SELDEV_NUMB_START	Literal	71	
MEN\$K_SUPBLK_SIZE	Literal	Lib03	149
MEN\$K_TMENU_TSTALL_DEVNUMB	Literal	71	
MEN\$K_TQ_STATE_TABLE	Literal	70	
MEN\$K_TSTCLA_ALL	Literal	71	
MEN\$K_TSTCLA_CARD	Literal	71	
MEN\$K_TSTCLA_COMM	Literal	71	
MEN\$K_TSTCLA_CPU	Literal	71	
MEN\$K_TSTCLA_DISK	Literal	71	
MEN\$K_TSTCLA_IO_ADAPTOR	Literal	71	
MEN\$K_TSTCLA_LAST_ENTRY	Literal	71	
MEN\$K_TSTCLA_MEMORY	Literal	71	
MEN\$K_TSTCLA_NULL	Literal	71	
MEN\$K_TSTCLA_PRINTER	Literal	71	
MEN\$K_TSTCLA_REAL	Literal	71	
MEN\$K_TSTCLA_TAPE	Literal	71	
MEN\$K_TSTCLA_TERM	Literal	71	
MEN\$K_TSTCTG_CPU	Literal	71	77
MEN\$K_TSTCTG_IO_ADAPTOR	Literal	71	79
MEN\$K_TSTCTG_IO_CONTROLLER	Literal	71	80
MEN\$K_TSTCTG_IO_UNIT	Literal	71	81
MEN\$K_TSTCTG_MEMORY	Literal	71	78
MEN\$K_TSTCTG_NULL	Literal	71	
MEN\$K_TSTTXT_DEVNAM_SZ	Literal	71	
MEN\$K_TSTTXT_TSTCLA_SZ	Literal	71	
MEN\$K_TSTTXT_UUTNAM_SZ	Literal	71	
MEN\$V_TQ_TABLE_NUMB_ENTRIES	Field	Lib03	158.
MEN\$V_TQ_TABLE_PTR	Field	Lib03	155a= 159. 252a= 255.
MEN\$V_TQ_TABLE_SIZE	Field	Lib03	155. 252.
MEN\$K_EXIT_AUTOSIZER_ERROR	Literal	70	
MEN\$K_EXIT_INTERNAL_ERROR	Literal	70	
MEN\$K_EXIT_LAST_REASON	Literal	70	
MEN\$K_EXIT_OPERATOR_ABORT	Literal	70	
MEN\$K_EXIT_OPERATOR_STOP	Literal	70	
MEN\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	70	

ZZ-ENSAB-2.0 MEN\$BldTstQ_FncTst_Dev Routine G 16
 MENTSTQ CRD MENU - Test Queue Tables 19-Sep-1985 17:24:51 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 8 Frame G16
 01-00 MEN\$BldTstQ_FncTst_Dev Routine 3-Jan-1985 17:02:39 [DS.CRD.V020]MENTSTQ.B32;1 Page 21 (13)

Symbol	Type	Defined	Referenced ...
MENU\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	70	
MM\$K_ACTION_ADVANCE_STATE	Literal	70	
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	70	
MM\$K_ACTION_BUILD_DDBS	Literal	70	
MM\$K_ACTION_BUILD_HSTS	Literal	70	
MM\$K_ACTION_CHANGE_TABLE	Literal	70	
MM\$K_ACTION_DONE_INITS	Literal	70	
MM\$K_ACTION_DO_NOTHING	Literal	70	
MM\$K_ACTION_DUMMY_3	Literal	70	
MM\$K_ACTION_DUMMY_4	Literal	70	
MM\$K_ACTION_DUMMY_5	Literal	70	
MM\$K_ACTION_DUMMY_6	Literal	70	
MM\$K_ACTION_DUMMY_7	Literal	70	
MM\$K_ACTION_DUMMY_8	Literal	70	
MM\$K_ACTION_INTERNAL_ERROR	Literal	70	
MM\$K_ACTION_LAST_ACTION	Literal	70	
MM\$K_ACTION_LOAD_AUTOSIZER	Literal	70	
MM\$K_ACTION_MENU_PROMPT	Literal	70	
MM\$K_ACTION_PRINT_MENU	Literal	70	
MM\$K_ACTION_PRINT_MENU_HEADING	Literal	70	
MM\$K_ACTION_SET_FLAGS_AUTOSIZER	Literal	70	
MM\$K_ACTION_START_AUTOSIZER	Literal	70	
MM\$K_STATE_AUTOSIZER_ERROR	Literal	70	
MM\$K_STATE_AUTOSIZER_RUNNING	Literal	70	
MM\$K_STATE_BUILD_DDBS	Literal	70	
MM\$K_STATE_BUILD_HSTS	Literal	70	
MM\$K_STATE_CHANGE_TABLE	Literal	70	
MM\$K_STATE_DONE_INITS	Literal	70	
MM\$K_STATE_DUMMY_1	Literal	70	
MM\$K_STATE_DUMMY_2	Literal	70	
MM\$K_STATE_DUMMY_3	Literal	70	
MM\$K_STATE_DUMMY_5	Literal	70	
MM\$K_STATE_DUMMY_7	Literal	70	
MM\$K_STATE_DUMMY_8	Literal	70	
MM\$K_STATE_INTERNAL_ERROR	Literal	70	
MM\$K_STATE_LAST_STATE	Literal	70	
MM\$K_STATE_LOAD_AUTOSIZER	Literal	70	
MM\$K_STATE_MENU_PROMPT	Literal	70	
MM\$K_STATE_PRINT_MENU	Literal	70	
MM\$K_STATE_PRINT_MENU_HEADING	Literal	70	
MM\$K_STATE_SET_FLAGS_AUTOSIZER	Literal	70	
MM\$K_STATE_START	Literal	70	
MM\$K_STATE_START_AUTOSIZER	Literal	70	
MODNAM	Macro	Lib01 67	
NUL2ND	Macro	Lib04 70 71	
QUEUE\$L_FLINK	Field	Lib03 190.	
QUEUE_BLKPTR	Register	147 188= 190= 190a. 193.	
SUPBLK\$B_TEST_CATEGORY	Field	Lib03 197.	
SUPBLK\$B_TEST_CLASS	Field	Lib03 198.	
SUPBLK_PTR	Register	149 195= 197a. 198a.	
TMTBL\$B_ENTRY_TSTCLA	Field	Lib03 179.	
TMTBL_INDEX	Register	146 175= 177= 177. 179.	
TQ\$K_ACTION_ADVANCE_STATE	Literal	70	

Symbol	Type	Defined	Referenced	...
TQ\$K_ACTION_CHANGE_TABLE	Literal	70		
TQ\$K_ACTION_DONE_TEST_QUEUE	Literal	70		
TQ\$K_ACTION_DO_NOTHING	Literal	70		
TQ\$K_ACTION_DUMMY_3	Literal	70		
TQ\$K_ACTION_DUMMY_4	Literal	70		
TQ\$K_ACTION_DUMMY_5	Literal	70		
TQ\$K_ACTION_GET_DDB	Literal	70		
TQ\$K_ACTION_INIT_TQ	Literal	70		
TQ\$K_ACTION_INTERNAL_ERROR	Literal	70		
TQ\$K_ACTION_LAST_ACTION	Literal	70		
TQ\$K_STATE_CHANGE_TABLE	Literal	70		
TQ\$K_STATE_DONE_TEST_QUEUE	Literal	70		
TQ\$K_STATE_DUMMY_1	Literal	70		
TQ\$K_STATE_DUMMY_2	Literal	70		
TQ\$K_STATE_DUMMY_3	Literal	70		
TQ\$K_STATE_DUMMY_4	Literal	70		
TQ\$K_STATE_DUMMY_5	Literal	70		
TQ\$K_STATE_GET_DDB	Literal	70		
TQ\$K_STATE_INIT_TQ	Literal	70		
TQ\$K_STATE_INTERNAL_ERROR	Literal	70		
TQ\$K_STATE_LAST_STATE	Literal	70		
TSTCLA	Register	140	179=	198.
TSTCTG	Register	141	169=	197.
TSTCTG_TBL_INDEX	Register	145	165=	167= 167. 169.
TSTQ_TBL_ENTRIES	Register	143	158=	191.
TSTQ_TBL_INDEX	Register	142	157=	191. 201. 202= 202.
TSTQ_TBL_PTR	Register	144	159=	201a=
Local		247	255=	258a=

CROSS REFERENCE MAP

Line #	Event	File	...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]MENTSTQ.B32;1	
2	Module	MENTSTQ	
46	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	
47	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	
48	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	
49	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2	
263	Eludom	MENTSTQ	

ZZ-ENSAB-2.0 MEN\$BldTstQ_FncTst_Dev Routine I 16
 MENTSTQ CRD MENU - Test Queue Tables 19-Sep-1985 17:24:51 VAX-11 Bliss-32 V4.1-746 Fiche 8 Frame 116
 01-00 MEN\$BldTstQ_FncTst_Dev Routine 3-Jan-1985 17:02:39 [DS.CRD.V020]MENTSTQ.B32;1 Page 23 (13)

Sequence 1645

KEY TO REFERENCE TYPE FLAGS

. Fetch
 = Store
 c Routine call
 a Address use
 @ Indirect use
 e External, external routine, or external literal declaration
 f Forward or forward routine declaration
 h Condition handler enabling
 m Map declaration
 u Undeclare declaration

; Library Statistics

File	Total	Loaded	Percent	Pages	Proces. ng	Mapped	Time
DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17	671	1	0	46			00:00.1
DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30	923	0	0	94			00:00.1
DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1	486	34	6	62			00:00.1
SYS\$COMMON:[SYSLIB]LIB.L32;2	18619			3	0	1000	00:04.3

; COMMAND QUALIFIERS

; BLISS MENTSTQ.B32/LIST-MENTSTQ.LIS/CROSS_REFERENCE/DEBUG/OBJECT=MENTSTQ.OBJ/TRACE/OPTIMIZE=(SPEED,LEVEL=3)

; Size: 170 code + 32 data bytes
 ; Run Time: 00:20.3
 ; Elapsed Time: 00:23.1
 ; Lines/CPU Min: 776
 ; Lexemes/CPU-Min: 60938
 ; Memory Used: 178 pages
 ; Compilation Complete

```
; 0001 0 xTITLE '*** MENTURING Module'
; 0002 0 MODULE MENTURING ( ! Routines to access the Menu Test State Tables
; 0003 0 IDENT = 'V01.2'
; 0004 0 ) =
; 0005 0 !*
; 0006 0 ! COPYRIGHT (c) 1980, 1981
; 0007 0 ! DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754
; 0008 0 !
; 0009 0 ! THIS SOFTWARE IS FURNISHED UNDER A LICENSE FOR USE ONLY ON A SINGLE
; 0010 0 ! COMPUTER SYSTEM AND MAY BE COPIED ONLY WITH THE INCLUSION OF THE
; 0011 0 ! ABOVE COPYRIGHT NOTICE. THIS SOFTWARE, OR ANY OTHER COPIES THEREOF,
; 0012 0 ! MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON
; 0013 0 ! EXCEPT FOR USE ON SUCH SYSTEM AND TO ONE WHO AGREES TO THESE LICENSE
; 0014 0 ! TERMS. TITLE TO AND OWNERSHIP OF THE SOFTWARE SHALL AT ALL TIMES
; 0015 0 ! REMAIN IN DEC.
; 0016 0 !
; 0017 0 ! THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
; 0018 0 ! AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
; 0019 0 ! CORPORATION.
; 0020 0 !
; 0021 0 ! DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
; 0022 0 ! SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.
; 0023 0 !-
```

```
: 0024 0 !**
: 0025 0 ! Facility:
: 0026 0 !
: 0027 0 ! Diagnostic Supervisor (part of the Loadable-CRD image).
: 0028 0 !
: 0029 0 ! Abstract:
: 0030 0 !
: 0031 0 ! This module contains those state routines that will access the three Menu Test state tables.
: 0032 0 !
: 0033 0 ! History:
: 0034 0 !
: 0035 0 ! 01 Jack Stansbury July 30,1982
: 0036 0 ! - Created module
: 0037 0 !
: 0038 0 ! 02 Ron Parker October 18, 1984
: 0039 0 ! - Make Previous state not just used be debug mode.
: 0040 0 ! This is also used by MM$_Start_Autosizer routine
: 0041 0 ! to stay in current state.
: 0042 0 !
: 0043 0 ! --
```

```
; 0044 0 xSBTTL 'Libraries'
; 0045 1 BEGIN      ! Begin the MENTURING module
; 0046 1
; 0047 1 LIBRARY
; 0048 1 '$DS';      ! Use Ds.L32 first
; 0049 1
; 0050 1 LIBRARY
; 0051 1 '$Diag';    ! Use Diag.L32 second
; 0052 1
; 0053 1 LIBRARY
; 0054 1 '$CRD';     ! Use CRD.L32 third
; 0055 1
; 0056 1 LIBRARY
; 0057 1 'Sys$Library:Lib'; ! Use Lib as last resort
```

```

; 0058 1 xSBTTL 'Table of Contents'
; 0059 1
; 0060 1 FORWARD ROUTINE
; 0061 1 MEN$Init_MM_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0062 1 MEN$Init_TQ_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0063 1 MEN$Init_HS_State_Table : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0064 1
; 0065 1 MEN$Get_Next_State : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0066 1
; 0067 1 MEN$Get_Next_Action_Routine : NOVALUE ADDRESSING_MODE (LONG_RELATIVE),
; 0068 1
; 0069 1 MEN$Turing_Machine : ADDRESSING_MODE (LONG_RELATIVE),
; 0070 1
; 0071 1 MEN$Print_Action_Routine : NOVALUE ADDRESSING_MODE (LONG_RELATIVE);
; 0072 1

```


ZZ-ENSAB-2.0 Included Macros and Literals C 1
MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame C1 Sequence 1650
V01.2 Included Macros and Literals 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 5 (5)

```
; 0073 1 xSBTTL 'Included Macros and Literals'
; 0074 1
; 0075 1 $DS_DSADef; ! Define the DSA locations
; 0076 1 $CRD_Literals; ! The CRD literals
```

```
; 0077 1 xSBTTL 'Psect Definitions'
; 0078 1
; 0079 1 PSECT
; 0080 1     PLIT    = Data (NOEXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0081 1
; 0082 1 PSECT
; 0083 1     CODE    = Code ( EXECUTE,    SHARE, NOWRITE, ADDRESSING_MODE (LONG_RELATIVE), PIC);
; 0084 1
; 0085 1 PSECT
; 0086 1     OWN     = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
; 0087 1
; 0088 1 PSECT
; 0089 1     GLOBAL = Work (NOEXECUTE, NOSHARE,    WRITE, ADDRESSING_MODE (LONG_RELATIVE));
```



```

; 0093 1 xSBTTL 'MEN$Init_MM_State_Table Routine'
; 0094 1
; 0095 1 GLOBAL ROUTINE MEN$Init_MM_State_Table : NOVALUE =
; 0096 1
; 0097 1 !**
; 0098 1 ! Functional Description:
; 0099 1 !
; 0100 1 ! Initialize the CRD$GAW_MM_State_Table and all its associated data structures.
; 0101 1 !
; 0102 1 ! Formal Input Parameters:
; 0103 1 !
; 0104 1 ! None
; 0105 1 !
; 0106 1 ! Formal Output Parameters:
; 0107 1 !
; 0108 1 ! None
; 0109 1 !
; 0110 1 ! Side Effects:
; 0111 1 !
; 0112 1 ! None
; 0113 1 !
; 0114 1 ! Completion Codes:
; 0115 1 !
; 0116 1 ! None
; 0117 1 ! --

```

```

; 0118 2 BEGIN      ! Routine MEN$Init_MM_State_Table
; 0119 2
; 0120 2 CRD$GL_MM_Current_State = MM$K_State_Start;
; 0121 2 RETURN;
; 0122 1 END;      ! Routine MEN$Init_MM_State_Table

```

```

.TITLE MENTURING *** MENTURING Module
.IDENT \V01.2\

```

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

```

47 4E 49 52 55 54 4E 45 4D 09 00000 P.AAA: .ASCII <9>\MENTURING\ ;

```

```

DSA$AL_APTMAIL=      65024
DSA$GL_FLAGS=        65024
DSA$GL_APTCOM=        65028
DSA$GL_PASSES=        65032
DSA$GL_UNITS=         65036
DSA$GL_SECTNO=        65040
DSA$GL_SID=          65044
DSA$GL_MSGTYP=        65088
DSA$GL_ERRNO=         65092
DSA$GL_EVENT=         65096
DSA$GL_SUBTNO=        65100
DSA$GL_TESTNO=        65104
DSA$GL_PASSNO=        65108
DSA$GL_DEVLEN=        65112
DSA$GL_DEVNAM=        65116
DSA$GL_MSGPTR=        65128

```

```

$MODULE= P.AAA
.EXTRN MEN$INIT_MM_STATE_TABLE
.EXTRN MEN$INIT_TQ_STATE_TABLE
.EXTRN MEN$INIT_HS_STATE_TABLE
.EXTRN MENTURING_MACHINE
.EXTRN MEN$PRINT_ACTION_ROUTINE
.EXTRN CRD$GL_MM_CURRENT_STATE

```

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

```

0000 00000 .ENTRY MEN$INIT_MM_STATE_TABLE, Save nothing ; 0095
00000000G EF 03 D0 00002 MOVL #3, CRD$GL_MM_CURRENT_STATE ; 0120
04 00009 RET ; 0122

```

```

; Routine Size: 10 bytes,    Routine Base: CODE + 0000

```

```

; 0123 1 $SBTTL 'MEN$Init_TQ_State_Table Routine'
; 0124 1
; 0125 1 GLOBAL ROUTINE MEN$Init_TQ_State_Table : NOVALUE =
; 0126 1
; 0127 1 !++
; 0128 1 ! Functional Description:
; 0129 1 !
; 0130 1 ! Initialize the CRD$GAW_TQ_State_Table and all its associated data structures.
; 0131 1 !
; 0132 1 ! Formal Input Parameters:
; 0133 1 !
; 0134 1 ! None
; 0135 1 !
; 0136 1 ! Formal Output Parameters:
; 0137 1 !
; 0138 1 ! None
; 0139 1 !
; 0140 1 ! Side Effects:
; 0141 1 !
; 0142 1 ! None
; 0143 1 !
; 0144 1 ! Completion Codes:
; 0145 1 !
; 0146 1 ! None
; 0147 1 ! --

```

ZZ-ENSAB-2.0 MEN\$Init_TQ_State_Table Routine I 1
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame 11 Sequence 1656
 V01.2 MEN\$Init_TQ_State_Table Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 (11) Page 11

```

; 0148 2 BEGIN      ! Routine MEN$Init_TQ_State_Table
; 0149 2
; 0150 2 CRD$GL_TQ_Current_State = TQ$K_State_Init_TQ;
; 0151 2 RETURN;
; 0152 1 END;      ! Routine MEN$Init_TQ_State_Table

```

.EXTRN CRD\$GL_TQ_CURRENT_STATE

```

      0000 00000 .ENTRY MEN$INIT_TQ_STATE_TABLE, Save nothing ; 0125
00000000G EF    03 DO 00002 MOVL    #3, CRD$GL_TQ_CURRENT_STATE ; 0150
04 00009 RET    ; 0152

```

; Routine Size: 10 bytes, Routine Base: CODE + 000A

ZZ-ENSAB-2.0 MEN\$Init_HS_State_Table Routine J 1
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame J1 Sequence 1657
 V01.2 MEN\$Init_HS_State_Table Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 (12) Page 12

```

; 0153 1 *SBTTL 'MEN$Init_HS_State_Table Routine'
; 0154 1
; 0155 1 GLOBAL ROUTINE MEN$Init_HS_State_Table : NOVALUE =
; 0156 1
; 0157 1 !++
; 0158 1 ! Functional Description:
; 0159 1 !
; 0160 1 ! Initialize the CRD$GAW_HS_State_Table and all its associated data structures.
; 0161 1 !
; 0162 1 ! Formal Input Parameters:
; 0163 1 !
; 0164 1 ! None
; 0165 1 !
; 0166 1 ! Formal Output Parameters:
; 0167 1 !
; 0168 1 ! None
; 0169 1 !
; 0170 1 ! Side Effects:
; 0171 1 !
; 0172 1 ! None
; 0173 1 !
; 0174 1 ! Completion Codes:
; 0175 1 !
; 0176 1 ! None
; 0177 1 ! --

```


ZZ-ENSAB-2.0 MEN\$Init_HS_State_Table Routine K 1
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame K1 Sequence 1658
 V01.2 MEN\$Init_HS_State_Table Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 (13) Page 13

```

; 0178 2 BEGIN      ! Routine MEN$Init_HS_State_Table
; 0179 2
; 0180 2 CRD$GL_HS_Current_State = HS$K_State_Init_HS;
; 0181 2 RETURN;
; 0182 1 END;      ! Routine MEN$Init_HS_State_Table

```

.EXTRN CRD\$GL_HS_CURRENT_STATE

```

      0000 00000 .ENTRY MEN$INIT_HS_STATE_TABLE, Save nothing      ; 0155
00000000G EF    03 DO 00002      MOVL      #3, CRD$GL_HS_CURRENT_STATE      ; 0180
      04 00009   RET                      ; 0182

```

; Routine Size: 10 bytes, Routine Base: CODE + 0014

```

; 0183 1  %SBTTL 'MEN$Get_Next_State Routine'
; 0184 1
; 0185 1  ROUTINE MEN$Get_Next_State : NOVALUE =
; 0186 1
; 0187 1  !+
; 0188 1  ! Functional Description:
; 0189 1  !
; 0190 1  ! Get the next state number from one of the state tables.
; 0191 1  !
; 0192 1  ! Formal Input Parameters:
; 0193 1  !
; 0194 1  ! None
; 0195 1  !
; 0196 1  ! Formal Output Parameters:
; 0197 1  !
; 0198 1  ! None
; 0199 1  !
; 0200 1  ! Side Effects:
; 0201 1  !
; 0202 1  ! None
; 0203 1  !
; 0204 1  ! Completion Codes:
; 0205 1  !
; 0206 1  ! None
; 0207 1  ! --

```

```

; 0208 2 BEGIN      ! Routine MEN$Get_Next_State
; 0209 2
; 0210 2 IF (.CRD$GB_Current_State_Table EQL MEN$K_MM_State_Table) THEN
; 0211 3 BEGIN
; 0212 3   CRD$GL_Previous_State = .CRD$GL_MM_Current_State;
; 0213 3   ! Save the old state
; 0214 3   CRD$GL_MM_Current_State =
; 0215 3   .CRD$GAW_MM_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_MM_Current_State, CRD$K_New_State];
; 0216 3 END
; 0217 3
; 0218 2 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_TQ_State_Table) THEN
; 0219 3 BEGIN
; 0220 3   CRD$GL_Previous_State = .CRD$GL_TQ_Current_State;
; 0221 3   ! Save the old state - mainly for debugging purposes
; 0222 3   CRD$GL_TQ_Current_State =
; 0223 3   .CRD$GAW_TQ_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_TQ_Current_State, CRD$K_New_State];
; 0224 3 END
; 0225 3
; 0226 2 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_HS_State_Table) THEN
; 0227 3 BEGIN
; 0228 3   CRD$GL_Previous_State = .CRD$GL_HS_Current_State;
; 0229 3   ! Save the old state - mainly for debugging purposes
; 0230 3   CRD$GL_HS_Current_State =
; 0231 3   .CRD$GAW_HS_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_HS_Current_State, CRD$K_New_State];
; 0232 3 END
; 0233 3
; 0234 2 ELSE
; 0235 3   $CRD_Print ($ASCIC ('Get_Next_State: Wrong value in current_state_table.!\'))
; 0236 1 END;      ! Routine MEN$Get_Next_State

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

65 74 61 74 53 5F 74 78 65 4E 5F 74 65 47 35 0000A P.AAB: .ASCII \Get_Next_State: Wrong value in current\_ ;
69 20 65 75 6C 61 76 20 67 6E 6F 72 57 20 3A 00019 ;
    5F 74 6E 65 72 72 75 63 20 6E 00028 ;
2F 21 2E 65 6C 62 61 74 5F 65 74 61 74 73 00032 .ASCII \state_table.!\\ ;

```

```

.EXTRN CRD$GB_CURRENT_STATE_TABLE
.EXTRN CRD$GL_PREVIOUS_STATE
.EXTRN CRD$GAW_MM_STATE_TABLE
.EXTRN CRD$GL_CURRENT_TYPECODE
.EXTRN CRD$GAW_TQ_STATE_TABLE
.EXTRN CRD$GAW_HS_STATE_TABLE
.EXTRN CRD$PRINT

```

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 MEN$GET_NEXT_STATE:
.WORD Save nothing ; 0185
50 00000000G EF 9A 00002 MOVZBL CRD$GB_CURRENT_STATE_TABLE, R0 ; 0210
42 12 00009 BNEQ 4$ ;
51 00000000G EF D0 0000B MOVL CRD$GL_MM_CURRENT_STATE, R1 ; 0212
00000000G EF 51 D0 00012 MOVL R1, CRD$GL_PREVIOUS_STATE ;

```

```

50 00000000G EF 00000050 8F C5 00019 MULL3 #80, CRD$GL_CURRENT_TYPECODE, R0 ; 0215
50 6041 DE 00025 MOVAL (R0)[R1], R0 ;
26 00000000G EF D1 00029 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
05 18 00030 BGEQ 1$ ;
14 51 D1 00032 CMPL R1, #20 ;
05 19 00035 BLSS 2$ ;
50 01 CE 00037 1$: MNEGL #1, R0 ;
08 11 0003A BRB 3$ ;
50 00000000GEF40 9E 0003C 2$: MOVAB CRD$GAW_MM_STATE_TABLE[R0], R0 ;
00000000G EF 02 A0 3C 00044 3$: MOVZWL 2(R0), CRD$GL_MM_CURRENT_STATE ;
04 0004C RET ; 0208
01 50 91 0004D 4$: CMPB R0, #1 ; 0218
3E 12 00050 BNEQ 8$ ;
51 00000000G EF D0 00052 MOVL CRD$GL_TQ_CURRENT_STATE, R1 ; 0220
00000000G EF 51 D0 00059 MOVL R1, CRD$GL_PREVIOUS_STATE ;
50 00000000G EF 28 C5 00060 MULL3 #40, CRD$GL_CURRENT_TYPECODE, R0 ; 0223
50 6041 DE 00068 MOVAL (R0)[R1], R0 ;
26 00000000G EF D1 0006C CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
05 18 00073 BGEQ 5$ ;
0A 51 D1 00075 CMPL R1, #10 ;
05 19 00078 BLSS 6$ ;
50 01 CE 0007A 5$: MNEGL #1, R0 ;
08 11 0007D BRB 7$ ;
50 00000000GEF40 9E 0007F 6$: MOVAB CRD$GAW_TQ_STATE_TABLE[R0], R0 ;
00000000G EF 02 A0 3C 00087 7$: MOVZWL 2(R0), CRD$GL_TQ_CURRENT_STATE ;
04 0008F RET ; 0218
02 50 91 00090 8$: CMPB R0, #2 ; 0226
42 12 00093 BNEQ 12$ ;
51 00000000G EF D0 00095 MOVL CRD$GL_HS_CURRENT_STATE, R1 ; 0228
00000000G EF 51 D0 0009C MOVL R1, CRD$GL_PREVIOUS_STATE ;
50 00000000G EF 00000058 8F C5 000A3 MULL3 #88, CRD$GL_CURRENT_TYPECODE, R0 ; 0231
50 6041 DE 000AF MOVAL (R0)[R1], R0 ;
26 00000000G EF D1 000B3 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
05 18 000BA BGEQ 9$ ;
16 51 D1 000BC CMPL R1, #22 ;
05 19 000BF BLSS 10$ ;
50 01 CE 000C1 9$: MNEGL #1, R0 ;
08 11 000C4 BRB 11$ ;
50 00000000GEF40 9E 000C6 10$: MOVAB CRD$GAW_HS_STATE_TABLE[R0], R0 ;
00000000G EF 02 A0 3C 000CE 11$: MOVZWL 2(R0), CRD$GL_HS_CURRENT_STATE ;
04 000D6 RET ; 0226
00000000' EF 9F 000D7 12$: PUSHAB P.AAB ; 0235
01 DD 000DD PUSHL #1 ;
1A DD 000DF PUSHL #26 ;
00000000G FF 03 FB 000E1 CALLS #3, @CRD$PRINT ;
04 000E8 RET ; 0236

```

; Routine Size: 233 bytes, Routine Base: CODE + 001E

```

; 0237 1 xSBTTL 'MEN$Get_Next_Action_Routine Routine'
; 0238 1
; 0239 1 ROUTINE MEN$Get_Next_Action_Routine : NOVALUE =
; 0240 1
; 0241 1 !++
; 0242 1 ! Functional Description:
; 0243 1 !
; 0244 1 ! Extract the current action routine number from one of the state tables.
; 0245 1 !
; 0246 1 ! Formal Input Parameters:
; 0247 1 !
; 0248 1 ! None
; 0249 1 !
; 0250 1 ! Formal Output Parameters:
; 0251 1 !
; 0252 1 ! None
; 0253 1 !
; 0254 1 ! Side Effects:
; 0255 1 !
; 0256 1 ! None
; 0257 1 !
; 0258 1 ! Completion Codes:
; 0259 1 !
; 0260 1 ! None
; 0261 1 ! --

```

```

; 0262 2 BEGIN      ! Routine MEN$Get_Next_Action_Routine
; 0263 2
; 0264 2 IF (.CRD$GB_Current_State_Table EQL MEN$K_MM_State_Table) THEN
; 0265 2   CRD$GL_Current_Action =
; 0266 2   .CRD$GAW_MM_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_MM_Current_State, CRD$K_Action_Routine]
; 0267 2
; 0268 2 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_TQ_State_Table) THEN
; 0269 2   CRD$GL_Current_Action =
; 0270 2   .CRD$GAW_TQ_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_TQ_Current_State, CRD$K_Action_Routine]
; 0271 2
; 0272 2 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_HS_State_Table) THEN
; 0273 2   CRD$GL_Current_Action =
; 0274 2   .CRD$GAW_HS_State_Table [.CRD$GL_Current_TypeCode, .CRD$GL_HS_Current_State, CRD$K_Action_Routine]
; 0275 2
; 0276 2 ELSE
; 0277 3   $CRD_Print ($ASCIC ('Get_Next_Action_Routine: Wrong value in current_state_table.!\'))
; 0278 3
; 0279 1 END;      ! Routine MEN$Get_Next_Action_Routine

```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

6F 69 74 63 41 5F 74 78 65 4E 5F 74 65 47 3E 00040 P.AAC: .ASCII \>Get_Next_Action_Routine: Wrong value in\ ;
6E 6F 72 57 20 3A 65 6E 69 74 75 6F 52 5F 6E 0004F ;
    6E 69 20 65 75 6C 61 76 20 67 0005E ;
5F 65 74 61 74 73 5F 74 6E 65 72 72 75 63 20 00068 .ASCII \ current_state_table.!\ \ ;
    2F 21 2E 65 6C 62 61 74 00077 ;

```

.EXTRN CRD\$GL_CURRENT_ACTION

.PSECT CODE,NOWRT, SHR, PIC,2

```

0000 00000 MEN$GET_NEXT_ACTION_ROUTINE:
.WORD Save nothing ; 0239
51 00000000G EF 9A 00002 MOVZBL CRD$GB_CURRENT_STATE_TABLE, R1 ; 0264
2F 12 00009 BNEQ 1$ ;
50 00000000G EF 00000050 8F C5 0000B MULL3 #80, CRD$GL_CURRENT_TYPECODE, R0 ; 0266
51 00000000G EF D0 00017 MOVL CRD$GL_MM_CURRENT_STATE, R1 ;
50 6041 DE 0001E MOVAL (R0)[R1], R0 ;
26 00000000G EF D1 00022 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
69 18 00029 BGEQ 3$ ;
14 51 D1 0002B CMPL R1, #20 ;
64 18 0002E BGEQ 3$ ;
50 00000000GEF40 9E 00030 MOVAB CRD$GAW_MM_STATE_TABLE[R0], R0 ;
67 11 00038 BRB 5$ ;
01 51 91 0003A 1$: CMPB R1, #1 ; 0268
2B 12 0003D BNEQ 2$ ;
50 00000000G EF 28 C5 0003F MULL3 #40, CRD$GL_CURRENT_TYPECODE, R0 ; 0270
51 00000000G EF D0 00047 MOVL CRD$GL_TQ_CURRENT_STATE, R1 ;
50 6041 DE 0004E MOVAL (R0)[R1], R0 ;
26 00000000G EF D1 00052 CMPL CRD$GL_CURRENT_TYPECODE, #38 ;
39 18 00059 BGEQ 3$ ;
0A 51 D1 0005B CMPL R1, #10 ;
34 18 0005E BGEQ 3$ ;

```

```

50 00000000GEF40 9E 00060    MOVAB    CRD$GAW_TQ_STATE_TABLE[R0], R0    ;
37 11 00068    BRB    5$    ;
02    51 91 0006A 2$:    CMPB    R1, #2    ; 0272
3A 12 0006D    BNEQ    6$    ;
50 00000000G EF 00000058 8F C5 0006F    MULL3    #88, CRD$GL_CURRENT_TYPECODE, R0    ; 0274
51 00000000G EF D0 0007B    MOVL    CRD$GL_HS_CURRENT_STATE, R1    ;
50    6041 DE 00082    MOVAL    (R0)[R1], R0    ;
26 00000000G EF D1 00086    CMPL    CRD$GL_CURRENT_TYPECODE, #38    ;
05 18 0008D    BGEQ    3$    ;
16    51 D1 0008F    CMPL    R1, #22    ;
05 19 00092    BLSS    4$    ;
50    01 CE 00094 3$:    MNEGL    #1, R0    ;
08 11 00097    BRB    5$    ;
50 00000000GEF40 9E 00099 4$:    MOVAB    CRD$GAW_HS_STATE_TABLE[R0], R0    ;
00000000G EF    60 3C 000A1 5$:    MOVZWL    (R0), CRD$GL_CURRENT_ACTION    ;
04 000A8    RET    ; 0273
00000000' EF 9F 000A9 6$:    PUSHAB    P.AAC    ; 0277
01 DD 000AF    PUSHL    #1    ;
1A DD 000B1    PUSHL    #26    ;
00000000G FF    03 FB 000B3    CALLS    #3, aCRD$PRINT    ;
04 000BA    RET    ; 0279

```

; Routine Size: 187 bytes, Routine Base: CODE + 0107

```

: 0280 1 xSBTTL 'MEN$ uring_Machine Routine'
: 0281 1
: 0282 1 GLOBAL ROUTINE MEN$Turing_Machine (TypeCode, Length, Address) =
: 0283 1
: 0284 1 !*+
: 0285 1 ! Functional Description:
: 0286 1 !
: 0287 1 ! This routine is the main decision-making routine for CRD Menu Test. It simulates a finite-state automata
: 0288 1 ! and uses three state tables to determine the next "state" of CRD. These state tables are defined in the
: 0289 1 ! MENSTATE module. There is one state table for use in presenting the Main Menu. The next state table is
: 0290 1 ! used for stepping through the Test Queue Table. The last state table is used for actually running the
: 0291 1 ! diagnostics. Each state table is modeled after the Auto Test state table, with some improvements made
: 0292 1 ! for the sake of clarity. Each state table contains it's own Internal_Error routine, to use when an internal
: 0293 1 ! error occurs while using that table. The initial state for CRD Menu Test is MM$K_State_Start. The longword
: 0294 1 ! at location CRD$GB_Current_State_Table contains the address of one of the three menu state tables. This
: 0295 1 ! address is used whenever a reference is made to one of the three tables. Each of the tables makes
: 0296 1 ! references to it's own set of action routines. These routines are in the CRDMMACT, CRDTQACT, and the
: 0297 1 ! CRDHSACT modules. Note that MM stands for Main Menu, TQ for Test Queue, and HS for Hardware Support.
: 0298 1 !
: 0299 1 ! This routine is capable of being called recursively. In fact, if an action routine returns a
: 0300 1 ! CRD$K_Repeat_Turing status value, this routine will call itself recursively. This allows multiple actions
: 0301 1 ! to be taken on a single typecode.
: 0302 1 !
: 0303 1 ! Formal Input Parameters:
: 0304 1 !
: 0305 1 ! TypeCode: The DS typecode value.
: 0306 1 ! Length: The length of the string being printed out by the Resident-DS, or the length of the
: 0307 1 ! buffer in which to put a string (e.g., the length of the CLI data buffer).
: 0308 1 ! Address: The address of the string being printed out, or the address of where to put the string.
: 0309 1 !
: 0310 1 ! Formal Output Parameters:
: 0311 1 !
: 0312 1 ! None
: 0313 1 !
: 0314 1 ! Side Effects:
: 0315 1 !
: 0316 1 ! Whew!
: 0317 1 !
: 0318 1 ! Completion Codes:
: 0319 1 !
: 0320 1 ! CRD$K_Success: Branch around what was about to be done in the Resident-DS.
: 0321 1 ! CRD$K_Failure: Perform the action that was about to happen in the Resident-DS.
: 0322 1 ! --

```



```

: 0323 2 BEGIN      ! Routine MEN$Turing_Machine
: 0324 2 LOCAL
: 0325 2   Do_Nothing, ! Two temporaries
: 0326 2   Ending_Value;
: 0327 2
: 0328 2 OWN
: 0329 2   Recursion : BYTE INITIAL (0);
: 0330 2
: 0331 2   !+
: 0332 2   ! Call the action routine. Each routine returns a multi-value status number.
: 0333 2   ! One such number is CRD$K_Repeat_Turing. When a routine returns this status
: 0334 2   ! value, it means that this Turing_Machine routine must be called recursively.
: 0335 2   ! This allows multiple actions to be performed on a single typecode (such as
: 0336 2   ! the DS_Prompt typecode). The Load_Com routines return the length of the
: 0337 2   ! loaded DS command in the high word of the returned status value, so check
: 0338 2   ! for the actual status value in the low word. Return the full longword to the
: 0339 2   ! DS_Interface routine. It will return the value to the Resident-DS routine that
: 0340 2   ! called it. So, this length will get passed back to the DS_SuperLine routine
: 0341 2   ! in the SCRIPT module.
: 0342 2   !-
: 0343 2
: 0344 2 MACRO
: M 0345 2   MM_Action_Routine_Case (AR_Name) [] =
: M 0346 2   [NAME ('MM$K_Action_', AR_Name)]:
: M 0347 2   BEGIN
: M 0348 2   LOCAL
: M 0349 2   Status : VECTOR [2, WORD];
: M 0350 2
: M 0351 2   Status = NAME ('MM$', AR_Name) (%REMAINING);
: M 0352 2
: M 0353 2   IF .Status [0] EQL CRD$K_Repeat_Turing THEN
: M 0354 2   BEGIN
: M 0355 2   Status = MEN$Turing_Machine (.TypeCode, .Length, .Address);
: M 0356 2   Recursion = .Recursion - 1;
: M 0357 2   $DS_Break;
: M 0358 2   RETURN (.Status)
: M 0359 2   END
: M 0360 2   ELSE
: M 0361 2   BEGIN
: M 0362 2   Recursion = .Recursion - 1;
: M 0363 2   $DS_Break;
: M 0364 2   RETURN (.Status)
: M 0365 2   END
: M 0366 2   END
: 0367 2   x;
: 0368 2
: 0369 2 MACRO
: M 0370 2   TQ_Action_Routine_Case (AR_Name) [] =
: M 0371 2   [NAME ('TQ$K_Action_', AR_Name)]:
: M 0372 2   BEGIN
: M 0373 2   LOCAL
: M 0374 2   Status : VECTOR [2, WORD];
: M 0375 2
: M 0376 2   Status = NAME ('TQ$', AR_Name) (%REMAINING);
: M 0377 2

```

```

; M 0378 2      IF .Status [0] EQL CRD$K_Repeat_Turing THEN
; M 0379 2      BEGIN
; M 0380 2      Status = MEN$Turing_Machine (.TypeCode, .Length, .Address);
; M 0381 2      Recursion = .Recursion - 1;
; M 0382 2      $DS_Break;
; M 0383 2      RETURN (.Status)
; M 0384 2      END
; M 0385 2      ELSE
; M 0386 2      BEGIN
; M 0387 2      Recursion = .Recursion - 1;
; M 0388 2      $DS_Break;
; M 0389 2      RETURN (.Status)
; M 0390 2      END
; M 0391 2      END
;      0392 2      x;
;      0393 2
;      0394 2      MACRO
; M 0395 2      HS_Action_Routine_Case (AR_Name) [ ] =
; M 0396 2      [xNAME ('HS$K_Action_', AR_Name)]:
; M 0397 2      BEGIN
; M 0398 2      LOCAL
; M 0399 2      Status : VECTOR [2, WORD];
; M 0400 2
; M 0401 2      Status = xNAME ('HS$', AR_Name) (xREMAINING);
; M 0402 2
; M 0403 2      IF .Status [0] EQL CRD$K_Repeat_Turing THEN
; M 0404 2      BEGIN
; M 0405 2      Status = MEN$Turing_Machine (.TypeCode, .Length, .Address);
; M 0406 2      Recursion = .Recursion - 1;
; M 0407 2      $DS_Break;
; M 0408 2      RETURN (.Status)
; M 0409 2      END
; M 0410 2      ELSE
; M 0411 2      BEGIN
; M 0412 2      Recursion = .Recursion - 1;
; M 0413 2      $DS_Break;
; M 0414 2      RETURN (.Status)
; M 0415 2      END
; M 0416 2      END
;      0417 2      x;

```

```

: 0418 2 $DS_Break; ! Check for ^C's typed on the terminal
: 0419 2
: 0420 2 IF .CRD$GB_CRD_Debug THEN
: P 0421 2   $CRD_Print (
: P 0422 2     $ASCIC ('!/MEN$Turing_Machine (Recursion=!UL):!/'),
: 0423 2     .Recursion);
: 0424 2
: 0425 2 Recursion = .Recursion + 1;
: 0426 2
: 0427 2 IF .CRD$GB_CRD_Debug THEN
: 0428 3 BEGIN
: P 0429 3   $CRD_Print (
: P 0430 3     $ASCIC (' - The current typecode, !UL, is '),
: 0431 3     .Typecode);
: 0432 3   CRD$Print_TypeCode_Name (.TypeCode);
: P 0433 3   $CRD_Print
: P 0434 3   (
: P 0435 3     $ASCIC (' - State Table: !2UL, MM State: !2UL, TQ State: !2UL, ',
: P 0436 3     'HS State: !2UL, Previous: !2UL!/',
: P 0437 3     ' - Action: !2UL, TypeCode: !2UL, Address: !XL(X), Length: !3UL!/',
: P 0438 3     ' - DS_Flags: !XL(X), DSA_Flags: !XL(X)!/'),
: P 0439 3     .CRD$GB_Current_State_Table, .CRD$GL_MM_Current_State, .CRD$GL_TQ_Current_State,
: P 0440 3     .CRD$GL_HS_Current_State, .CRD$GL_Previous_State,
: P 0441 3     .CRD$GL_Current_Action, .TypeCode, .Address, .Length, ..CRD$GA_DS_Flags, .DSA$GL_Flags
: 0442 3   );
: 0443 2 END;
: 0444 2
: 0445 2 CRD$GL_Current_TypeCode = .TypeCode;
: 0446 2
: 0447 2 Ending_Value =
: 0448 3 BEGIN
: 0449 3   IF (.CRD$GB_Current_State_Table EQL MEN$K_MM_State_Table) THEN
: 0450 3     MM$K_Action_Advance_State
: 0451 3   ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_TQ_State_Table) THEN
: 0452 3     TQ$K_Action_Advance_State
: 0453 3   ELSE
: 0454 3     HS$K_Action_Advance_State
: 0455 2   END;
: 0456 2
: 0457 2 DO
: 0458 3 BEGIN
: 0459 3   !+
: 0460 3   ! These two routines MUST be called in this order, because the Get_Next_State routine alters
: 0461 3   ! a value that the Get_Next_Action routine uses.
: 0462 3   !-
: 0463 3
: 0464 3   MEN$Get_Next_Action_Routine ();
: 0465 3   MEN$Get_Next_State ();
: 0466 3   END
: 0467 2 UNTIL (.CRD$GL_Current_Action NEQ .Ending_Value);
: 0468 2
: 0469 2 IF .CRD$GB_CRD_Debug THEN
: 0470 2   $CRD_Print ($ASCIC (' - Executing action routine: '));
: 0471 2
: 0472 2 Do_Nothing =
  
```

```

: 0473 3 BEGIN
: 0474 3 IF (.CRD$GB_Current_State_Table EQL MEN$K_MM_State_Table) THEN
: 0475 3   MM$K_Action_Do_Nothing
: 0476 3 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_TQ_State_Table) THEN
: 0477 3   TQ$K_Action_Do_Nothing
: 0478 3 ELSE
: 0479 3   HS$K_Action_Do_Nothing
: 0480 2 END;
: 0481 2
: 0482 2 IF (.CRD$GL_Current_Action EQL .Do_Nothing) THEN
: 0483 3 BEGIN
: 0484 3   Recursion = .Recursion - 1;
: 0485 3   IF .CRD$GB_CRD_Debug THEN
: 0486 3     MEN$Print_Action_Routine (.Do_Nothing);
: 0487 4   RETURN (CRD$K_Success)
: 0488 2 END;
: 0489 2
: 0490 2 IF .CRD$GB_CRD_Debug THEN
: 0491 2   MEN$Print_Action_Routine (.CRD$GL_Current_Action);
: 0492 2
: 0493 2 IF (.CRD$GB_Current_State_Table EQL MEN$K_MM_State_Table) THEN
: 0494 2   CASE .CRD$GL_Current_Action FROM 0 TO (MM$K_Action_Last_Action - 1) OF
: 0495 2     SET
: 0496 2     MM_Action_Routine_Case (Print_Menu_Heading);
: 0497 2     MM_Action_Routine_Case (Load_AutoSizer, .Length, .Address);
: 0498 2     MM_Action_Routine_Case (Set_Flags_AutoSizer, .Length, .Address);
: 0499 2     MM_Action_Routine_Case (Start_AutoSizer, .Length, .Address);
: 0500 2     MM_Action_Routine_Case (Build_DDBs);
: 0501 2     MM_Action_Routine_Case (Build_HSTs);
: 0502 2     MM_Action_Routine_Case (Done_Inits);
: 0503 2     MM_Action_Routine_Case (Print_Menu);
: 0504 2     MM_Action_Routine_Case (Change_Table);
: 0505 2     MM_Action_Routine_Case (Menu_Prompt);
: 0506 2     MM_Action_Routine_Case (Internal_Error, .TypeCode, .Length, .Address);
: 0507 2     MM_Action_Routine_Case (AutoSizer_Error);
: 0508 2
: 0509 2     [MM$K_Action_Do_Nothing
: 0510 2     ,MM$K_Action_Advance_State
: 0511 2     ,MM$K_Action_Dummy_3
: 0512 2     ,MM$K_Action_Dummy_4
: 0513 2     ,MM$K_Action_Dummy_5
: 0514 2     ,MM$K_Action_Dummy_6
: 0515 2     ,MM$K_Action_Dummy_7
: 0516 2     ,MM$K_Action_Dummy_8];
: 0517 3   BEGIN
: 0518 3     CRD$Internal_Error (CRD$K_Bad_Action_Number, .Length, .Address);
: 0519 3     ! Pass length and address so that we have 3 parameters
: 0520 2   END;
: 0521 2
: 0522 2 [OUTRANGE]:
: 0523 3 BEGIN
: 0524 3   CRD$Internal_Error (CRD$K_Action_Range_Error, .Length, .Address);
: 0525 3   ! Pass length and address so that we have 3 parameters
: 0526 2 END;
: 0527 2 TES

```

```

: 0528 2
: 0529 2 ELSE IF (.CRD$GB_Current_State_Table EQL MEN$K_TQ_State_Table) THEN
: 0530 2
: 0531 2 CASE .CRD$GL_Current_Action FROM 0 TO (TQ$K_Action_Last_Action - 1) OF
: 0532 2 SET
: 0533 2   TQ_Action_Routine_Case (Init_TQ);
: 0534 2   TQ_Action_Routine_Case (Get_DDB);
: 0535 2   TQ_Action_Routine_Case (Change_Table);
: 0536 2   TQ_Action_Routine_Case (Done_Test_Queue);
: 0537 2   TQ_Action_Routine_Case (Internal_Error, .TypeCode, .Length, Address);
: 0538 2
: 0539 2   [TQ$K_Action_Do_Nothing
: 0540 2     ,TQ$K_Action_Advance_State
: 0541 2     ,TQ$K_Action_Dummy_3
: 0542 2     ,TQ$K_Action_Dummy_4
: 0543 2     ,TQ$K_Action_Dummy_5]:
: 0544 3 BEGIN
: 0545 3   CRD$Internal_Error (CRD$K_Bad_Action_Number, .Length, .Address);
: 0546 3   ! Pass length and address so that we have 3 parameters
: 0547 2 END;
: 0548 2
: 0549 2 [OUTRANGE]:
: 0550 3 BEGIN
: 0551 3   CRD$Internal_Error (CRD$K_Action_Range_Error, .Length, .Address);
: 0552 3   ! Pass length and address so that we have 3 parameters
: 0553 2 END;
: 0554 2 TES
: 0555 2
: 0556 2 ELSE
: 0557 2
: 0558 2 CASE .CRD$GL_Current_Action FROM 0 TO (HS$K_Action_Last_Action - 1) OF
: 0559 2 SET
: 0560 2   HS_Action_Routine_Case (Init_HS);
: 0561 2
: 0562 2   HS_Action_Routine_Case (Advance_Diagnostic);
: 0563 2   HS_Action_Routine_Case (Load_General_Com, .Length, .Address);
: 0564 2   HS_Action_Routine_Case (Advance_General_Com);
: 0565 2   HS_Action_Routine_Case (Done_General_Com);
: 0566 2
: 0567 2   HS_Action_Routine_Case (Load_Load_Com, .Length, .Address);
: 0568 2   HS_Action_Routine_Case (Load_Set_Flags_Com, .Length, .Address);
: 0569 2   HS_Action_Routine_Case (Load_Set_Event_Com, .Length, .Address);
: 0570 2   HS_Action_Routine_Case (Load_Select_Com, .Length, .Address);
: 0571 2   HS_Action_Routine_Case (Load_Start_Com, .Length, .Address);
: 0572 2
: 0573 2   HS_Action_Routine_Case (Change_Table);
: 0574 2   HS_Action_Routine_Case (Load_Error);
: 0575 2   HS_Action_Routine_Case (Start_Error);
: 0576 2   HS_Action_Routine_Case (Diagnostic_Error, .TypeCode, .Length, .Address);
: 0577 2   HS_Action_Routine_Case (Preparation_Error);
: 0578 2   HS_Action_Routine_Case (Internal_Error, .TypeCode, .Length, .Address);
: 0579 2
: 0580 2   [HS$K_Action_Do_Nothing
: 0581 2     ,HS$K_Action_Advance_State
: 0582 2     ,HS$K_Action_Dummy_3

```

```

: 0583 2 ,HS$K_Action_Dummy_4
: 0584 2 ,HS$K_Action_Dummy_5
: 0585 2 ,HS$K_Action_Dummy_6];
: 0586 3 BEGIN
: 0587 3 CRD$Internal_Error (CRD$K_Bad_Action_Number, .Length, .Address);
: 0588 3 ! Pass length and address so that we have 3 parameters
: 0589 2 END;
: 0590 2
: 0591 2 [OUTRANGE]:
: 0592 3 BEGIN
: 0593 3 CRD$Internal_Error (CRD$K_Action_Range_Error, .Length, .Address);
: 0594 3 ! Pass length and address so that we have 3 parameters
: 0595 2 END;
: 0596 2 TES;
: 0597 2
: 0598 3 RETURN (CRD$K_Failure)
: 0599 1 END; ! Routine MEN$Turing_Machine

```

.PSECT WORK,NOEXE,2

00 00000 RECURSION:

.BYTE 0 ;

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

4D 5F 67 6E 69 72 75 54 24 4E 45 4D 2F 21 27 0007F P.AAD: .ASCII \'/MEN$Turing_Machine (Recursion=!UL):!/\ ;
69 73 72 75 63 65 52 28 20 65 6E 69 68 63 61 0008E ;
2F 21 3A 29 4C 55 21 3D 6E 6F 0009D ;
6E 65 72 72 75 63 20 65 68 54 20 2D 20 20 22 000A7 P.AAE: .ASCII \ - The current typecode, !UL, is \ ;
4C 55 21 20 2C 65 64 6F 63 65 70 79 74 20 74 000B6 ;
20 73 69 20 2C 000C5 ;
6C 62 61 54 20 65 74 61 74 53 20 2D 20 20 C1 000CA P.AAF: .ASCII <193>\ - State Table: !2UL, MM State: !\ ;
61 74 53 20 4D 4D 20 2C 4C 55 32 21 20 3A 65 000D9 ;
21 20 3A 65 74 000E8 ;
20 3A 65 74 61 74 53 20 51 54 20 2C 4C 55 32 000ED .ASCII \2UL, TQ State: !2UL, HS State: !2UL, Pre\ ;
3A 65 74 61 74 53 20 53 48 20 2C 4C 55 32 21 000FC ;
65 72 50 20 2C 4C 55 32 21 20 0010B ;
20 20 2F 21 4C 55 32 21 20 3A 73 75 6F 69 76 00115 .ASCII \vious: !2UL!/ - Action: !2UL, TypeCode:\ ;
2C 4C 55 32 21 20 3A 6E 6F 69 74 63 41 20 2D 00124 ;
3A 65 64 6F 43 65 70 79 54 20 00133 ;
3A 73 73 65 72 64 64 41 20 2C 4C 55 32 21 20 0013D .ASCII \ !2UL, Address: !XL(X), Length: !3UL!/ \ ;
68 74 67 6E 65 4C 20 2C 29 58 28 4C 58 21 20 0014C ;
20 20 2F 21 4C 55 33 21 20 3A 0015B ;
4C 58 21 20 3A 73 67 61 6C 46 5F 53 44 20 2D 00165 .ASCII \- DS_Flags: !XL(X), DSA_Flags: !XL(X)!/\ ;
3A 73 67 61 6C 46 5F 41 53 44 20 2C 29 58 28 00174 ;
2F 21 29 58 28 4C 58 21 20 00183 ;
20 67 6E 69 74 75 63 65 78 45 20 2D 20 20 1E 0018C P.AAG: .ASCII <30>\ - Executing action routine: \ ;
3A 65 6E 69 74 75 6F 72 20 6E 6F 69 74 63 61 0019B ;
20 001AA ;

```

.EXTRN DS\$BREAK, CRD\$GB_CRD_DEBUG
 .EXTRN CRD\$PRINT_TYPECODE_NAME
 .EXTRN CRD\$GA_DS_FLAGS

```

.EXTRN  MM$PRINT_MENU_HEADING
.EXTRN  MM$LOAD_AUTOSIZER
.EXTRN  MM$SET_FLAGS_AUTOSIZER
.EXTRN  MM$START_AUTOSIZER
.EXTRN  MM$BUILD_DDBS, MM$BUILD_HSTS
.EXTRN  MM$DONE_INITS, MM$PRINT_MENU
.EXTRN  MM$CHANGE_TABLE
.EXTRN  MM$MENU_PROMPT, MM$INTERNAL_ERROR
.EXTRN  MM$AUTOSIZER_ERROR
.EXTRN  CRD$INTERNAL_ERROR
.EXTRN  TQ$INIT_TQ, TQ$GET_DDB
.EXTRN  TQ$CHANGE_TABLE
.EXTRN  TQ$DONE_TEST_QUEUE
.EXTRN  TQ$INTERNAL_ERROR
.EXTRN  HSS$INIT_HS, HSS$ADVANCE_DIAGNOSTIC
.EXTRN  HSS$LOAD_GENERAL_COM
.EXTRN  HSS$ADVANCE_GENERAL_COM
.EXTRN  HSS$DONE_GENERAL_COMS
.EXTRN  HSS$LOAD_LOAD_COM
.EXTRN  HSS$LOAD_SET_FLAGS_COM
.EXTRN  HSS$LOAD_SET_EVENT_COM
.EXTRN  HSS$LOAD_SELECT_COM
.EXTRN  HSS$LOAD_START_COM
.EXTRN  HSS$CHANGE_TABLE
.EXTRN  HSS$LOAD_ERROR, HSS$START_ERROR
.EXTRN  HSS$DIAGNOSTIC_ERROR
.EXTRN  HSS$PREPARATION_ERROR
.EXTRN  HSS$INTERNAL_ERROR
  
```

.PSECT CODE, NOWRT, SHR, PIC, 2

```

      000C 00000    .ENTRY  MEN$TURING_MACHINE, Save R2,R3                    ; 0282
00000000G 9F       00 FB 00002    CALLS    #0, @DS$BREAK                    ; 0417
      18 00000000G EF E9 00009    BLBC    CRD$GB_CRD_DEBUG, 1$               ; 0420
      7E 00000000' EF 9A 00010    MOVZBL RECURSION, -(SP)                ; 0423
00000000' EF 9F 00017    PUSHAB P.AAD                                    ;
      01 DD 0001D    PUSHL    #1                                        ;
      1A DD 0001F    PUSHL    #26                                       ;
00000000G FF       04 FB 00021    CALLS    #4, @CRD$PRINT                   ;
00000000' EF 96 00028 1$ INCB    RECURSION                               ; 0425
      69 00000000G EF E9 0002E    BLBC    CRD$GB_CRD_DEBUG, 2$               ; 0427
04 AC DD 00035    PUSHL    TYPECODE                                    ; 0431
00000000' EF 9F 00038    PUSHAB P.AAE                                    ;
      01 DD 0003E    PUSHL    #1                                        ;
      1A DD 00040    PUSHL    #26                                       ;
00000000G FF       04 FB 00042    CALLS    #4, @CRD$PRINT                   ;
04 AC DD 00049    PUSHL    TYPECODE                                    ; 0432
00000000G EF       01 FB 0004C    CALLS    #1, CRD$PRINT_TYPECODE_NAME       ;
0000FE00 9F DD 00053    PUSHL    @#^X0000FE00                        ; 0442
00000000G FF DD 00059    PUSHL    @CRD$GA_DS_FLAGS                       ;
08 AC DD 0005F    PUSHL    LENGTH                                       ;
0C AC DD 00062    PUSHL    ADDRESS                                       ;
04 AC DD 00065    PUSHL    TYPECODE                                       ;
00000000G EF DD 00068    PUSHL    CRD$GL_CURRENT_ACTION                ;
00000000G EF DD 0006E    PUSHL    CRD$GL_PREVIOUS_STATE                ;
  
```

```

00000000G EF DD 00074 PUSHL CRD$GL_HS_CURRENT_STATE ;
00000000G EF DD 0007A PUSHL CRD$GL_TQ_CURRENT_STATE ;
00000000G EF DD 00080 PUSHL CRD$GL_MM_CURRENT_STATE ;
7E 00000000G EF 9A 00086 MOVZBL CRD$GB_CURRENT_STATE_TABLE, -(SP) ;
00000000' EF 9F 0008D PUSHAB P.AAF ;
01 DD 00093 PUSHL #1 ;
1A DD 00095 PUSHL #26 ;
00000000G FF 0E FB 00097 CALLS #14, @CRD$PRINT ;
52 04 AC DO 0009E 2$: MOVL TYPECODE, R2 ; 0445
00000000G EF 52 DO 000A2 MOVL R2, CRD$GL_CURRENT_TYPECODE ;
50 00000000G EF 9A 000A9 MOVZBL CRD$GB_CURRENT_STATE_TABLE, R0 ; 0449
53 01 DO 000B0 MOVL #1, ENDING_VALUE ; 0451
FE8D CF 00 FB 000B3 3$: CALLS #0, MEN$GET_NEXT_ACTION_ROUTINE ; 0464
FD9F CF 00 FB 000B8 CALLS #0, MEN$GET_NEXT_STATE ; 0465
53 00000000G EF D1 000BD CMPL CRD$GL_CURRENT_ACTION, ENDING_VALUE ; 0467
ED 13 000C4 BEQL 3$ ;
11 00000000G EF E9 000C6 BLBC CRD$GB_CRD_DEBUG, 4$ ; 0469
00000000' EF 9F 000CD PUSHAB P.AAG ; 0470
01 DD 000D3 PUSHL #1 ;
1A DD 000D5 PUSHL #26 ;
00000000G FF 03 FB 000D7 CALLS #3, @CRD$PRINT ;
50 00000000G EF 9A 000DE 4$: MOVZBL CRD$GB_CURRENT_STATE_TABLE, R0 ; 0474
50 D4 000E5 CLRL DO_NOTHING ; 0476
50 00000000G EF D1 000E7 CMPL CRD$GL_CURRENT_ACTION, DO_NOTHING ; 0482
1A 12 000EE BNEQ 6$ ;
00000000' EF 97 000F0 DECB RECURSION ; 0484
09 00000000G EF E9 000F6 BLBC CRD$GB_CRD_DEBUG, 5$ ; 0485
50 DD 000FD PUSHL DO_NOTHING ; 0486
00000000V EF 01 FB 000FF CALLS #1, MEN$PRINT_ACTION_ROUTINE ;
50 01 DO 00106 5$: MOVL #1, R0 ; 0487
04 00109 RET ;
0D 00000000G EF E9 0010A 6$: BLBC CRD$GB_CRD_DEBUG, 7$ ; 0490
00000000G EF DD 00111 PUSHL CRD$GL_CURRENT_ACTION ; 0491
00000000V EF 01 FB 00117 CALLS #1, MEN$PRINT_ACTION_ROUTINE ;
50 00000000G EF DO 0011E 7$: MOVL CRD$GL_CURRENT_ACTION, R0 ; 0494
51 00000000G EF 9A 00125 MOVZBL CRD$GB_CURRENT_STATE_TABLE, R1 ; 0493
03 13 0012C BEQL 8$ ;
00BA 31 0012E BRW 24$ ;
13 00 50 CF 00131 8$: CASEL R0, #0, #19 ; 0494
022F 022F 022F 022F 00135 9$: .WORD 52$-9$,- ;
004D 0040 002B 022F 0013D 52$-9$,- ;
0070 0067 022F 005A 00145 52$-9$,- ;
0082 022F 0079 022F 0014D 52$-9$,- ;
00AC 009D 0094 008B 00155 52$-9$,- ;
10$-9$,- ;
13$-9$,- ;
14$-9$,- ;
15$ 9$,- ;
52$ 9$,- ;
16$ 9$,- ;
17$ 9$,- ;
52$ 9$,- ;
18$ 9$,- ;
52$ 9$,- ;
19$ 9$,- ;

```



```

    20$-9$.-
    21$-9$.-
    22$-9$.-
    23$-9$
0112 31 0015D BRW 33$ ; 0524
00000000G EF 00 FB 00160 10$: CALLS #0, MM$PRINT_MENU_HEADING ; 0496
    53 50 D0 00167 11$: MOVL R0, STATUS ;
    02 53 B1 0016A CMPH STATUS, #2 ;
    03 13 0016D BEQL 12$ ;
01E1 31 0016F BRW 51$ ;
01D0 31 00172 12$: BRW 50$ ;
    7E 08 AC 7D 00175 13$: MOVQ LENGTH, -(SP) ; 0497
00000000G EF 02 FB 00179 CALLS #2, MM$LOAD_AUTOSIZER ;
    E5 11 00180 BRB 11$ ;
    7E 08 AC 7D 00182 14$: MOVQ LENGTH, -(SP) ; 0498
00000000G EF 02 FB 00186 CALLS #2, MM$SET_FLAGS_AUTOSIZER ;
    D8 11 0018D BRB 11$ ;
    7E 08 AC 7D 0018F 15$: MOVQ LENGTH, -(SP) ; 0499
00000000G EF 02 FB 00193 CALLS #2, MM$START_AUTOSIZER ;
    CB 11 0019A BRB 11$ ;
00000000G EF 00 FB 0019C 16$: CALLS #0, MM$BUILD_DDBS ; 0500
    C2 11 001A3 BRB 11$ ;
00000000G EF 00 FB 001A5 17$: CALLS #0, MM$BUILD_HSTS ; 0501
    B9 11 001AC BRB 11$ ;
00000000G EF 00 FB 001AE 18$: CALLS #0, MM$DONE_INITS ; 0502
    B0 11 001B5 BRB 11$ ;
00000000G EF 00 FB 001B7 19$: CALLS #0, MM$PRINT_MENU ; 0503
    A7 11 001BE BRB 11$ ;
00000000G EF 00 FB 001C0 20$: CALLS #0, MM$CHANGE_TABLE ; 0504
    9E 11 001C7 BRB 11$ ;
00000000G EF 00 FB 001C9 21$: CALLS #0, MM$MENU_PROMPT ; 0505
    95 11 001D0 BRB 11$ ;
    7E 08 AC 7D 001D2 22$: MOVQ LENGTH, -(SP) ; 0506
    52 DD 001D6 PUSHL R2 ;
00000000G EF 03 FB 001D8 CALLS #3, MM$INTERNAL_ERROR ;
    86 11 001DF BRB 11$ ;
00000000G EF 00 FB 001E1 23$: CALLS #0, MM$AUTOSIZER_ERROR ; 0507
    FF7C 31 001E8 BRW 11$ ;
    01 51 91 001EB 24$: CMPB R1, #1 ; 0529
    52 12 001EE BNEQ 31$ ;
    09 00 50 CF 001F0 CASEL R0, #0, #9 ; 0531
0016 0170 0170 0170 001F4 25$: .WORD 52$-25$.- ;
0034 0170 002A 0020 001FC 52$-25$.- ;
    003E 0170 00204 52$-25$.- ;
    26$-25$.-
    27$-25$.-
    28$-25$.-
    52$-25$.-
    29$-25$.-
    52$-25$.-
    30$-25$
    68 11 00208 BRB 33$ ; 0551
00000000G EF 00 FB 0020A 26$: CALLS #0, TQ$INIT_TQ ; 0533
    FF53 31 00211 BRW 11$ ;
00000000G EF 00 FB 00214 27$: CALLS #0, TQ$GET_DDB ; 0534
  
```

```

    FF49 31 0021B BRW 11$
00000000G EF 00 FB 0021E 28$: CALLS #0, TQ$CHANGE_TABLE ; 0535
    FF3F 31 00225 BRW 11$
00000000G EF 00 FB 00228 29$: CALLS #0, TQ$DONE_TEST_QUEUE ; 0536
    FF35 31 0022F BRW 11$
    7E 08 AC 7D 00232 30$: MOVQ LENGTH, -(SP) ; 0537
    52 DD 00236 PUSHL R2
00000000G EF 03 FB 00238 CALLS #3, TQ$INTERNAL_ERROR ;
    FF25 31 0023F BRW 11$
    15 00 50 CF 00242 31$: CASEL R0, #0, #21 ; 0558
0036 011E 011E 011E 00246 32$: .WORD 52$-32$,- ;
0062 0058 004A 0040 0024E 52$-32$,- ;
0088 007A 006C 011E 00256 52$-32$,- ;
011E 011E 00A4 0096 0025E 34$-32$,- ;
00D0 00C6 00BC 00B2 00266 35$-32$,- ;
    00EA 00E0 0026E 36$-32$,- ;
    37$-32$,- ;
    38$-32$,- ;
    52$-32$,- ;
    39$-32$,- ;
    40$-32$,- ;
    41$-32$,- ;
    42$-32$,- ;
    43$ 32$,- ;
    52$ 32$,- ;
    52$ 32$,- ;
    44$ 32$,- ;
    45$ 32$,- ;
    46$-32$,- ;
    47$-32$,- ;
    48$-32$,- ;
    49$-32$,- ;
    7E 08 AC 7D 00272 33$: MOVQ LENGTH, -(SP) ; 0593
    7E 02 CE 00276 MNEGL #2, -(SP) ;
    00EF 31 00279 BRW 53$
00000000G EF 00 FB 0027C 34$: CALLS #0, HS$INIT_HS ; 0560
    FEE1 31 00283 BRW 11$
00000000G EF 00 FB 00286 35$: CALLS #0, HS$ADVANCE_DIAGNOSTIC ; 0562
    FED7 31 0028D BRW 11$
    7E 08 AC 7D 00290 36$: MOVQ LENGTH, -(SP) ; 0563
00000000G EF 02 FB 00294 CALLS #2, HS$LOAD_GENERAL_COM ;
    FEC9 31 0029B BRW 11$
00000000G EF 00 FB 0029E 37$: CALLS #0, HS$ADVANCE_GENERAL_COM ; 0564
    FEBF 31 002A5 BRW 11$
00000000G EF 00 FB 002A8 38$: CALLS #0, HS$DONE_GENERAL_COM ; 0565
    FEB5 31 002AF BRW 11$
    7E 08 AC 7D 002B2 39$: MOVQ LENGTH, -(SP) ; 0567
00000000G EF 02 FB 002B6 CALLS #2, HS$LOAD_LOAD_COM ;
    FEA7 31 002BD BRW 11$
    7E 08 AC 7D 002C0 40$: MOVQ LENGTH, -(SP) ; 0568
00000000G EF 02 FB 002C4 CALLS #2, HS$LOAD_SET_FLAGS_COM ;
    FE99 31 002CB BRW 11$
    7E 08 AC 7D 002CE 41$: MOVQ LENGTH, -(SP) ; 0569
00000000G EF 02 FB 002D2 CALLS #2, HS$LOAD_SET_EVENT_COM ;
    FE8B 31 002D9 BRW 11$
  
```

```

    7E 08 AC 7D 002DC 42$: MOVQ LENGTH, -(SP) ; 0570
00000000G EF 02 FB 002E0 CALLS #2, HS$LOAD_SELECT_COM ;
    FE7D 31 002E7 BRW 11$ ;
    7E 08 AC 7D 002EA 43$: MOVQ LENGTH, -(SP) ; 0571
00000000G EF 02 FB 002EE CALLS #2, HS$LOAD_START_COM ;
    FE6F 31 002F5 BRW 11$ ;
00000000G EF 00 FB 002F8 44$: CALLS #0, HS$CHANGE_TABLE ; 0573
    FE65 31 002FF BRW 11$ ;
00000000G EF 00 FB 00302 45$: CALLS #0, HS$LOAD_ERROR ; 0574
    FE5B 31 00309 BRW 11$ ;
00000000G EF 00 FB 0030C 46$: CALLS #0, HS$START_ERROR ; 0575
    FE51 31 00313 BRW 11$ ;
    7E 08 AC 7D 00316 47$: MOVQ LENGTH, -(SP) ; 0576
    52 DD 0031A PUSHL R2 ;
00000000G EF 03 FB 0031C CALLS #3, HS$DIAGNOSTIC_ERROR ;
    FE41 31 00323 BRW 11$ ;
00000000G EF 00 FB 00326 48$: CALLS #0, HS$PREPARATION_ERROR ; 0577
    FE37 31 0032D BRW 11$ ;
    7E 08 AC 7D 00330 49$: MOVQ LENGTH, -(SP) ; 0578
    52 DD 00334 PUSHL R2 ;
00000000G EF 03 FB 00336 CALLS #3, HS$INTERNAL_ERROR ;
    53 50 D0 0033D MOVL R0, STATUS ;
    02 53 B1 00340 CMPW STATUS, #2 ;
    0E 12 00343 BNEQ 51$ ;
    7E 08 AC 7D 00345 50$: MOVQ LENGTH, -(SP) ;
    52 DD 00349 PUSHL R2 ;
FCB0 CF 03 FB 0034B CALLS #3, MEN$TURING_MACHINE ;
    53 50 D0 00350 MOVL R0, STATUS ;
00000000' EF 97 00353 51$: DECB RECURSION ;
00000000G 9F 00 FB 00359 CALLS #0, DS$BREAK ;
    50 53 D0 00360 MOVL STATUS, R0 ;
    04 00363 RET ;
    7E 08 AC 7D 00364 52$: MOVQ LENGTH, -(SP) ; 0587
    7E 09 CE 00368 MNEGL #9, -(SP) ;
00000000G EF 03 FB 0036B 53$: CALLS #3, CRD$INTERNAL_ERROR ;
    50 D4 00372 CLRL R0 ; 0598
    04 00374 RET ; 0599
  
```

; Routine Size: 885 bytes, Routine Base: CODE + 01C2

```
; 0600 1 xSBTTL 'MENS$Print_Action_Routine Routine'
; 0601 1
; 0602 1 GLOBAL ROUTINE MENS$Print_Action_Routine (Action_Routine) : NOVALUE =
; 0603 1
; 0604 1 !*
; 0605 1 ! Functional Description:
; 0606 1 !
; 0607 1 ! This routine prints a message saying what the Action_Routine is.
; 0608 1 !
; 0609 1 ! Formal Input Parameters:
; 0610 1 !
; 0611 1 ! Action_Routine : An action routine constant.
; 0612 1 !
; 0613 1 ! Formal Output Parameters:
; 0614 1 !
; 0615 1 ! None
; 0616 1 !
; 0617 1 ! Side Effects:
; 0618 1 !
; 0619 1 ! None
; 0620 1 !
; 0621 1 ! Completion Codes:
; 0622 1 !
; 0623 1 ! None
; 0624 1 ! --
```

```

: 0625 2 BEGIN      ! Routine MEN$Print_Action_Routine
: 0626 2 MACRO
: M 0627 2   MM_Action_Routine_Case (Action_Routine_String) =
: M 0628 2   [xNAME ('MM$K_Action_', Action_Routine_String)]:
: M 0629 2   $CRD_Print ($ASCIC ('MM - (!UL) - ', Action_Routine_String, '!//'), .Action_Routine)
: 0630 2   x;
: 0631 2
: 0632 2 MACRO
: M 0633 2   TQ_Action_Routine_Case (Action_Routine_String) =
: M 0634 2   [xNAME ('TQ$K_Action_', Action_Routine_String)]:
: M 0635 2   $CRD_Print ($ASCIC ('TQ - (!UL) - ', Action_Routine_String, '!//'), .Action_Routine)
: 0636 2   x;
: 0637 2
: 0638 2 MACRO
: M 0639 2   HS_Action_Routine_Case (Action_Routine_String) =
: M 0640 2   [xNAME ('HS$K_Action_', Action_Routine_String)]:
: M 0641 2   $CRD_Print ($ASCIC ('HS - (!UL) - ', Action_Routine_String, '!//'), .Action_Routine)
: 0642 2   x;

```

```

: 0643 2 IF (.CRD$GB_Current_State_Table EQL MENS$K_MM_State_Table) THEN
: 0644 2 CASE .Action_Routine FROM 0 TO (MM$K_Action_Last_Action - 1) OF
: 0645 2 SET
: 0646 2 MM_Action_Routine_Case ('Do_Nothing');
: 0647 2 MM_Action_Routine_Case ('Dummy_3');
: 0648 2 MM_Action_Routine_Case ('Dummy_4');
: 0649 2 MM_Action_Routine_Case ('Dummy_5');
: 0650 2 MM_Action_Routine_Case ('Advance_State');
: 0651 2 MM_Action_Routine_Case ('Print_Menu_Heading');
: 0652 2 MM_Action_Routine_Case ('Load_AutoSizer');
: 0653 2 MM_Action_Routine_Case ('Set_Flags_AutoSizer');
: 0654 2 MM_Action_Routine_Case ('Start_AutoSizer');
: 0655 2 MM_Action_Routine_Case ('Dummy_6');
: 0656 2 MM_Action_Routine_Case ('Build_DDBs');
: 0657 2 MM_Action_Routine_Case ('Build_HSTs');
: 0658 2 MM_Action_Routine_Case ('Dummy_7');
: 0659 2 MM_Action_Routine_Case ('Done_Inits');
: 0660 2 MM_Action_Routine_Case ('Dummy_8');
: 0661 2 MM_Action_Routine_Case ('Print_Menu');
: 0662 2 MM_Action_Routine_Case ('Change_Table');
: 0663 2 MM_Action_Routine_Case ('Menu_Prompt');
: 0664 2 MM_Action_Routine_Case ('Internal_Error');
: 0665 2 MM_Action_Routine_Case ('AutoSizer_Error');
: 0666 2
: 0667 2 [OUTRANGE]:
: 0668 3 BEGIN
: 0669 4 $CRD_Print ($ASCIC ('MM - (!UL) - ???!/' ), .Action_Routine)
: 0670 2 END;
: 0671 2 TES
: 0672 2
: 0673 2 ELSE IF (.CRD$GB_Current_State_Table EQL MENS$K_TQ_State_Table) THEN
: 0674 2
: 0675 2 CASE .CRD$GL_Current_Action FROM 0 TO (TQ$K_Action_Last_Action - 1) OF
: 0676 2 SET
: 0677 2 TQ_Action_Routine_Case ('Do_Nothing');
: 0678 2 TQ_Action_Routine_Case ('Advance_State');
: 0679 2 TQ_Action_Routine_Case ('Dummy_3');
: 0680 2 TQ_Action_Routine_Case ('Init_TQ');
: 0681 2 TQ_Action_Routine_Case ('Get_DDB');
: 0682 2 TQ_Action_Routine_Case ('Change_Table');
: 0683 2 TQ_Action_Routine_Case ('Dummy_4');
: 0684 2 TQ_Action_Routine_Case ('Done_Test_Queue');
: 0685 2 TQ_Action_Routine_Case ('Dummy_5');
: 0686 2 TQ_Action_Routine_Case ('Internal_Error');
: 0687 2
: 0688 2 [OUTRANGE]:
: 0689 3 BEGIN
: 0690 4 $CRD_Print ($ASCIC ('TQ - (!UL) - ???!/' ), .Action_Routine)
: 0691 2 END;
: 0692 2 TES
: 0693 2
: 0694 2 ELSE IF (.CRD$GB_Current_State_Table EQL MENS$K_HS_State_Table) THEN
: 0695 2
: 0696 2 CASE .CRD$GL_Current_Action FROM 0 TO (HS$K_Action_Last_Action - 1) OF
: 0697 2 SET

```

```

: 0698 2 HS_Action_Routine_Case ('Do_Nothing');
: 0699 2 HS_Action_Routine_Case ('Advance_State');
: 0700 2 HS_Action_Routine_Case ('Dummy_3');
: 0701 2 HS_Action_Routine_Case ('Init_HS');
: 0702 2 HS_Action_Routine_Case ('Advance_Diagnostic');
: 0703 2 HS_Action_Routine_Case ('Load_General_Com');
: 0704 2 HS_Action_Routine_Case ('Advance_General_Com');
: 0705 2 HS_Action_Routine_Case ('Done_General_Com');
: 0706 2 HS_Action_Routine_Case ('Dummy_4');
: 0707 2 HS_Action_Routine_Case ('Load_Load_Com');
: 0708 2 HS_Action_Routine_Case ('Load_Set_Flags_Com');
: 0709 2 HS_Action_Routine_Case ('Load_Set_Event_Com');
: 0710 2 HS_Action_Routine_Case ('Load_Select_Com');
: 0711 2 HS_Action_Routine_Case ('Load_Start_Com');
: 0712 2 HS_Action_Routine_Case ('Dummy_5');
: 0713 2 HS_Action_Routine_Case ('Dummy_6');
: 0714 2 HS_Action_Routine_Case ('Change_Table');
: 0715 2 HS_Action_Routine_Case ('Load_Error');
: 0716 2 HS_Action_Routine_Case ('Start_Error');
: 0717 2 HS_Action_Routine_Case ('Diagnostic_Error');
: 0718 2 HS_Action_Routine_Case ('Preparation_Error');
: 0719 2 HS_Action_Routine_Case ('Internal_Error');
: 0720 2
: 0721 2 [OUTRANGE]:
: 0722 3 BEGIN
: 0723 4 $CRD_Print ($ASCIC ('HS - (!UL) - ???!/' ), .Action_Routine)
: 0724 2 END;
: 0725 2 TES
: 0726 2
: 0727 2 ELSE
: P 0728 2 $CRD_Print ($ASCIC ('?? - (!UL) - State table value wrong, is !UL!/' ),
: 0729 2 .Action_Routine, .CRD$GB_Current_State_Table);
: 0730 2
: 0731 1 END; ! Routine MEN$Print_Action_Routine
  
```

.PSECT DATA,NOWRT,NOEXE, SHR,2

```

44 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1B 001AB P.AAH: .ASCII <27>\MM - (!UL) - Do_Nothing!//!\ ;
2F 21 2F 21 67 6E 69 68 74 6F 4E 5F 6F 001BA ;
44 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1B 001C7 P.AAI: .ASCII <24>\MM - (!UL) - Dummy_3!//!\ ;
2F 21 2F 21 33 5F 79 6D 6D 75 001D6 ;
44 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1B 001E0 P.AAJ: .ASCII <24>\MM - (!UL) - Dummy_4!//!\ ;
2F 21 2F 21 34 5F 79 6D 6D 75 001EF ;
44 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1B 001F9 P.AAK: .ASCII <24>\MM - (!UL) - Dummy_5!//!\ ;
2F 21 2F 21 35 5F 79 6D 6D 75 00208 ;
41 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1E 00212 P.AAL: .ASCII <30>\MM - (!UL) - Advance_State!//!\ ;
21 2F 21 65 74 61 74 53 5F 65 63 6E 61 76 64 00221 ;
2F 00230 ;
50 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 23 00231 P.AAM: .ASCII \MM - (!UL) - Print_Menu_Heading!//!\ ;
69 64 61 65 48 5F 75 6E 65 4D 5F 74 6E 69 72 00240 ;
2F 21 2F 21 67 6E 0024F ;
4C 20 2D 20 29 4C 55 21 28 20 2D 20 4D 4D 1F 00255 P.AAN: .ASCII <31>\MM - (!UL) - Load_AutoSizer!//!\ ;
2F 21 72 65 7A 69 53 6F 74 75 41 5F 64 61 6F 00264 ;
  
```

53	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	24	00275	P.AAO:	.ASCII	\\$MM - (!UL) - Set_Flags_AutoSizer!//!\	:
69	53	6F	74	75	41	5F	73	67	61	6C	46	5F	74	65	00284		:		
	2F	21	2F	21	72	65	7A	00293											
53	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	20	0029A	P.AAP:	.ASCII	\ MM - (!UL) - Start_AutoSizer!//!\	:
21	72	65	7A	69	53	6F	74	75	41	5F	74	72	61	74	002A9		:		
	2F	21	2F	21	002B8														
44	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	18	002BB	P.AAQ:	.ASCII	<24>\MM - (!UL) - Dummy_6!//!\	:
	2F	21	2F	21	36	5F	79	6D	6D	75	002CA								
42	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1B	002D4	P.AAR:	.ASCII	<27>\MM - (!UL) - Build_DDBs!//!\	:
	2F	21	2F	21	73	42	44	5F	64	6C	69	75	002E3						
42	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1B	002F0	P.AAS:	.ASCII	<27>\MM - (!UL) - Build_HSTs!//!\	:
	2F	21	2F	21	73	54	53	48	5F	64	6C	69	75	002FF					
44	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	18	0030C	P.AAT:	.ASCII	<24>\MM - (!UL) - Dummy_7!//!\	:
	2F	21	2F	21	37	5F	79	6D	6D	75	0031B								
44	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1B	00325	P.AAU:	.ASCII	<27>\MM - (!UL) - Done_Inits!//!\	:
	2F	21	2F	21	73	74	69	6E	49	5F	65	6E	6F	00334					
44	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	18	00341	P.AAV:	.ASCII	<24>\MM - (!UL) - Dummy_8!//!\	:
	2F	21	2F	21	38	5F	79	6D	6D	75	00350								
50	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1B	0035A	P.AAW:	.ASCII	<27>\MM - (!UL) - Print_Menu!//!\	:
	2F	21	2F	21	75	6E	65	4D	5F	74	6E	69	72	00369					
43	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1D	00376	P.AAX:	.ASCII	<29>\MM - (!UL) - Change_Table!//!\	:
	2F	21	2F	21	65	6C	62	61	54	5F	65	67	6E	61	68	00385			
4D	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1C	00394	P.AAY:	.ASCII	<28>\MM - (!UL) - Menu_Prompt!//!\	:
	2F	21	2F	21	74	70	6D	6F	72	50	5F	75	6E	65	003A3				
49	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	1F	003B1	P.AAZ:	.ASCII	<31>\MM - (!UL) - Internal_Error!//!\	:
	2F	21	72	6F	72	72	45	5F	6C	61	6E	72	65	74	6E	003C0			
		2F	21	003CF															
41	20	2D	20	29	4C	55	21	28	20	2D	20	4D	4D	20	003D1	P.ABA:	.ASCII	\ MM - (!UL) - AutoSizer_Error!//!\	:
	21	72	6F	72	72	45	5F	72	65	7A</									


```

2F 21 0051A
3F 20 2D 20 29 4C 55 21 28 20 2D 20 51 54 12 0051C P.ABM: .ASCII <18>\TQ - (!UL) - ???!\      ;
      2F 21 3F 3F 0052B
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1B 0052F P.ABN: .ASCII <27>\HS - (!UL) - Do_Nothing!/>\      ;
      2F 21 2F 21 67 6E 69 68 74 6F 4E 5F 6F 0053E
41 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1E 0054B P.ABO: .ASCII <30>\HS - (!UL) - Advance_State!/>\      ;
21 2F 21 65 74 61 74 53 5F 65 63 6E 61 76 64 0055A
      2F 00569
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 18 0056A P.ABP: .ASCII <24>\HS - (!UL) - Dummy_3!/>\      ;
      2F 21 2F 21 33 5F 79 6D 6D 75 00579
49 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 18 00583 P.ABQ: .ASCII <24>\HS - (!UL) - Init_HS!/>\      ;
      2F 21 2F 21 53 48 5F 74 69 6E 00592
41 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 23 0059C P.ABR: .ASCII \#HS - (!UL) - Advance_Diagnostic!/>\      ;
74 73 6F 6E 67 61 69 44 5F 65 63 6E 61 76 64 005AB
      2F 21 2F 21 63 69 005BA
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 21 005C0 P.ABS: .ASCII \!HS - (!UL) - Load_General_Com!/>\      ;
6D 6F 43 5F 6C 61 72 65 6E 65 47 5F 64 61 6F 005CF
      2F 21 2F 21 005DE
41 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 24 005E2 P.ABT: .ASCII \$HS - (!UL) - Advance_General_Com!/>\      ;
5F 6C 61 72 65 6E 65 47 5F 65 63 6E 61 76 64 005F1
      2F 21 2F 21 6D 6F 43 00600
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 22 00607 P.ABU: .ASCII \ HS - (!UL) - Done_General_Com!/>\      ;
6D 6F 43 5F 6C 61 72 65 6E 65 47 5F 65 6E 6F 00616
      2F 21 2F 21 73 00625
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 18 0062A P.ABV: .ASCII <24>\HS - (!UL) - Dummy_4!/>\      ;
      2F 21 2F 21 34 5F 79 6D 6D 75 00639
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1E 00643 P.ABW: .ASCII <30>\HS - (!UL) - Load_Load_Com!/>\      ;
21 2F 21 6D 6F 43 5F 64 61 6F 4C 5F 64 61 6F 00652
      2F 00661
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 23 00662 P.ABX: .ASCII \#HS - (!UL) - Load_Set_Flags_Com!/>\      ;
43 5F 73 67 61 6C 46 5F 74 65 53 5F 64 61 6F 00671
      2F 21 2F 21 6D 6F 00680
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 23 00686 P.ABY: .ASCII \#HS - (!UL) - Load_Set_Event_Com!/>\      ;
43 5F 74 6E 65 76 45 5F 74 65 53 5F 64 61 6F 00695
      2F 21 2F 21 6D 6F 006A4
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 20 006AA P.ABZ: .ASCII \ HS - (!UL) - Load_Select_Com!/>\      ;
21 6D 6F 43 5F 74 63 65 6C 65 53 5F 64 61 6F 006B9
      2F 21 2F 006C8
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1F 006CB P.ACA: .ASCII <31>\HS - (!UL) - Load_Start_Com!/>\      ;
2F 21 6D 6F 43 5F 74 72 61 74 53 5F 64 61 6F 006DA
      2F 21 006E9
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 18 006EB P.ACB: .ASCII <24>\HS - (!UL) - Dummy_5!/>\      ;
      2F 21 2F 21 35 5F 79 6D 6D 75 006FA
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 18 00704 P.ACC: .ASCII <24>\HS - (!UL) - Dummy_6!/>\      ;
      2F 21 2F 21 36 5F 79 6D 6D 75 00713
43 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1D 0071D P.ACD: .ASCII <29>\HS - (!UL) - Change_Table!/>\      ;
2F 21 2F 21 65 6C 62 61 54 5F 65 67 6E 61 68 0072C
4C 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1B 0073B P.ACE: .ASCII <27>\HS - (!UL) - Load_Error!/>\      ;
      2F 21 2F 21 72 6F 72 72 45 5F 64 61 6F 0074A
53 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1C 00757 P.ACF: .ASCII <28>\HS - (!UL) - Start_Error!/>\      ;
      2F 21 2F 21 72 6F 72 72 45 5F 74 72 61 74 00766
44 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 21 00774 P.ACG: .ASCII \!HS - (!UL) - Diagnostic_Error!/>\      ;
72 6F 72 72 45 5F 63 69 74 73 6F 6E 67 61 69 00783
      2F 21 2F 21 00792
50 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 22 00796 P.ACH: .ASCII \ HS - (!UL) - Preparation_Error!/>\      ;
```

```

6F 72 72 45 5F 6E 6F 69 74 61 72 61 70 65 72 007A5 ;
2F 21 2F 21 72 007B4 ;
49 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 1F 007B9 P.ACI: .ASCII <31>\HS - (!UL) - Internal_Error!//!\ ;
2F 21 72 6F 72 72 45 5F 6C 61 6E 72 65 74 6E 007C8 ;
2F 21 007D7 ;
3F 20 2D 20 29 4C 55 21 28 20 2D 20 53 48 12 007D9 P.ACJ: .ASCII <18>\HS - (!UL) - ???!/\ ;
2F 21 3F 3F 007E8 ;
53 20 2D 20 29 4C 55 21 28 20 2D 20 3F 3F 2E 007EC P.ACK: .ASCII \.?? - (!UL) - State table value wrong, i\ ;
75 6C 61 76 20 65 6C 62 61 74 20 65 74 61 74 007FB ;
69 20 2C 67 6E 6F 72 77 20 65 0080A ;
2F 21 4C 55 21 20 73 00814 .ASCII \s !UL!/\ ;
  
```

.PSECT CODE,NOWRT, SHR, PIC,2

```

000C 00000 .ENTRY MENS$PRINT_ACTION_ROUTINE, Save R2,R3 ; 0602
52 04 AC D0 00002 MOVL ACTION_ROUTINE, R2 ; 0644
53 00000000G EF D0 00006 MOVL CRD$PRINT, R3 ; 0669
50 00000000G EF 9A 0000D MOVZBL CRD$GB_CURRENT_STATE_TABLE, R0 ; 0643
03 13 00014 BEQL 1$ ;
0113 31 00016 BRW 23$ ;
13 00 52 CF 00019 1$: CASEL R2, #0, #19 ; 0644
0049 003E 005F 0033 0001D 2$: .WORD 3$-2$,- ;
0080 0075 006A 0054 00025 7$-2$,- ;
00AC 00A1 0096 008B 0002D 4$-2$,- ;
00D8 00CD 00C2 00B7 00035 5$-2$,- ;
0104 00F9 00EE 00E3 0003D 6$-2$,- ;
8$-2$,- ;
9$-2$,- ;
10$-2$,- ;
11$-2$,- ;
12$-2$,- ;
13$-2$,- ;
14$-2$,- ;
15$-2$,- ;
16$-2$,- ;
17$-2$,- ;
18$ 2$,- ;
19$ 2$,- ;
20$ 2$,- ;
21$ 2$,- ;
22$-2$ ;
52 DD 00045 PUSHL R2 ; 0669
00000000' EF 9F 00047 PUSHAB P.ABB ;
02A3 31 0004D BRW 61$ ;
52 DD 00050 3$: PUSHL R2 ; 0646
00000000' EF 9F 00052 PUSHAB P.AAH ;
0298 31 00058 BRW 61$ ;
52 DD 0005B 4$: PUSHL R2 ; 0647
00000000' EF 9F 0005D PUSHAB P.AAI ;
028D 31 00063 BRW 61$ ;
52 DD 00066 5$: PUSHL R2 ; 0648
00000000' EF 9F 00068 PUSHAB P.AAJ ;
0282 31 0006E BRW 61$ ;
  
```

```

    52 DD 00071 6$:  PUSHL  R2      ; 0649
00000000' EF 9F 00073  PUSHAB P.AAK ;
    0277 31 00079  BRW    61$      ;
    52 DD 0007C 7$:  PUSHL  R2      ; 0650
00000000' EF 9F 0007E  PUSHAB P.AAL ;
    026C 31 00084  BRW    61$      ;
    52 DD 00087 8$:  PUSHL  R2      ; 0651
00000000' EF 9F 00089  PUSHAB P.AAM ;
    0261 31 0008F  BRW    61$      ;
    52 DD 00092 9$:  PUSHL  R2      ; 0652
00000000' EF 9F 00094  PUSHAB P.AAN ;
    0256 31 0009A  BRW    61$      ;
    52 DD 0009D 10$: PUSHL  R2      ; 0653
00000000' EF 9F 0009F  PUSHAB P.AAO ;
    024B 31 000A5  BRW    61$      ;
    52 DD 000A8 11$: PUSHL  R2      ; 0654
00000000' EF 9F 000AA  PUSHAB P.AAP ;
    0240 31 000B0  BRW    61$      ;
    52 DD 000B3 12$: PUSHL  R2      ; 0655
00000000' EF 9F 000B5  PUSHAB P.AAQ ;
    0235 31 000BB  BRW    61$      ;
    52 DD 000BE 13$: PUSHL  R2      ; 0656
00000000' EF 9F 000C0  PUSHAB P.AAR ;
    022A 31 000C6  BRW    61$      ;
    52 DD 000C9 14$: PUSHL  R2      ; 0657
00000000' EF 9F 000CB  PUSHAB P.AAS ;
    021F 31 000D1  BRW    61$      ;
    52 DD 000D4 15$: PUSHL  R2      ; 0658
00000000' EF 9F 000D6  PUSHAB P.AAT ;
    0214 31 000DC  BRW    61$      ;
    52 DD 000DF 16$: PUSHL  R2      ; 0659
00000000' EF 9F 000E1  PUSHAB P.AAU ;
    0209 31 000E7  BRW    61$      ;
    52 DD 000EA 17$: PUSHL  R2      ; 0660
00000000' EF 9F 000EC  PUSHAB P.AAV ;
    01FE 31 000F2  BRW    61$      ;
    52 DD 000F5 18$: PUSHL  R2      ; 0661
00000000' EF 9F 000F7  PUSHAB P.AAW ;
    01F3 31 000FD  BRW    61$      ;
    52 DD 00100 19$: PUSHL  R2      ; 0662
00000000' EF 9F 00102  PUSHAB P.AAX ;
    01E8 31 00108  BRW    61$      ;
    52 DD 0010B 20$: PUSHL  R2      ; 0663
00000000' EF 9F 0010D  PUSHAB P.AAY ;
    01DD 31 00113  BRW    61$      ;
    52 DD 00116 21$: PUSHL  R2      ; 0664
00000000' EF 9F 00118  PUSHAB P.AAZ ;
    01D2 31 0011E  BRW    61$      ;
    52 DD 00121 22$: PUSHL  R2      ; 0665
00000000' EF 9F 00123  PUSHAB P.ABA ;
    01C7 31 00129  BRW    61$      ;
    01    50 91 0012C 23$:  CMPB  R0, #1      ; 0673
    03 13 0012F  BEQL    24$      ;
    0095 31 00131  BRW    36$      ;
    09    00 00000000G EF CF 00134 24$:  CASEL  CRD$GL_CURRENT_ACTION, #0, #9      ; 0675
  
```

0040 006C	0035 0061	002A 0056	001F 004B	0013C 00144	25\$: 27\$-25\$,-	WORD 26\$-25\$,-	;
0082	0077	0014C	28\$-25\$,-				
	29\$-25\$,-						
	30\$-25\$,-						
	31\$-25\$,-						
	32\$-25\$,-						
	33\$-25\$,-						
	34\$-25\$,-						
	35\$-25\$						
52	DD 00150	PUSHL	R2			; 0690	
00000000	' EF 9F 00152	PUSHAB	P.ABM				
0198	31 00158	BRW	61\$				
52	DD 0015B	26\$: PUSHL	R2			; 0677	
00000000	' EF 9F 0015D	PUSHAB	P.ABC				
018D	31 00163	BRW	61\$				
52	DD 00166	27\$: PUSHL	R2			; 0678	
00000000	' EF 9F 00168	PUSHAB	P.ABD				
0182	31 0016E	BRW	61\$				
52	DD 00171	28\$: PUSHL	R2			; 0679	
00000000	' EF 9F 00173	PUSHAB	P.ABE				
0177	31 00179	BRW	61\$				
52	DD 0017C	29\$: PUSHL	R2			; 0680	
00000000	' EF 9F 0017E	PUSHAB	P.ABF				
016C	31 00184	BRW	61\$				
52	DD 00187	30\$: PUSHL	R2			; 0681	
00000000	' EF 9F 00189	PUSHAB	P.ABG				
0161	31 0018F	BRW	61\$				
52	DD 00192	31\$: PUSHL	R2			; 0682	
00000000	' EF 9F 00194	PUSHAB	P.ABH				
0156	31 0019A	BRW	61\$				
52	DD 0019D	32\$: PUSHL	R2			; 0683	
00000000	' EF 9F 0019F	PUSHAB	P.ABI				
014B	31 001A5	BRW	61\$				
52	DD 001A8	33\$: PUSHL	R2			; 0684	
00000000	' EF 9F 001AA	PUSHAB	P.ABJ				
0140	31 001B0	BRW	61\$				
52	DD 001B3	34\$: PUSHL	R2			; 0685	
00000000	' EF 9F 001B5	PUSHAB	P.ABK				
0135	31 001BB	BRW	61\$				
52	DD 001BE	35\$: PUSHL	R2			; 0686	
00000000	' EF 9F 001C0	PUSHAB	P.ABL				
012A	31 001C6	BRW	61\$				
02	50 91 001C9	36\$: CMPB	R0, #2			; 0694	
03	13 001CC	BEQL	37\$				
012A	31 001CE	BRW	62\$				
15	00	00000000G	EF CF 001D1	37\$: CASEL	CRD\$GL_CURRENT_ACTION, #0, #21		; 0696
0058	004D	0042	0037	001D9	38\$: WORD	39\$-38\$,-	
0084	0079	006E	0063	001E1	40\$-38\$,-		
00AE	00A4	009A	008F	001E9	41\$-38\$,-		
00D6	00CC	00C2	00B8	001F1	42\$-38\$,-		
00FE	00F4	00EA	00E0	001F9	43\$-38\$,-		
0112	0108	00201	44\$-38\$,-				
	45\$-38\$,-						
	46\$-38\$,-						

```

47$-38$.-      ;
48$-38$.-      ;
49$-38$.-      ;
50$-38$.-      ;
51$-38$.-      ;
52$-38$.-      ;
53$-38$.-      ;
54$-38$.-      ;
55$-38$.-      ;
56$-38$.-      ;
57$-38$.-      ;
58$-38$.-      ;
59$-38$.-      ;
60$-38$.-      ;
52 DD 00205     PUSHL R2      ; 0723
00000000' EF 9F 00207     PUSHAB P.ACJ ;
00E3 31 0020D     BRW        61$ ;
52 DD 00210 39$ : PUSHL R2      ; 0698
00000000' EF 9F 00212     PUSHAB P.ABN ;
00D8 31 00218     BRW        61$ ;
52 DD 0021B 40$ : PUSHL R2      ; 0699
00000000' EF 9F 0021D     PUSHAB P.ABO ;
00CD 31 00223     BRW        61$ ;
52 DD 00226 41$ : PUSHL R2      ; 0700
00000000' EF 9F 00228     PUSHAB P.ABP ;
00C2 31 0022E     BRW        61$ ;
52 DD 00231 42$ : PUSHL R2      ; 0701
00000000' EF 9F 00233     PUSHAB P.ABQ ;
00B7 31 00239     BRW        61$ ;
52 DD 0023C 43$ : PUSHL R2      ; 0702
00000000' EF 9F 0023E     PUSHAB P.ABR ;
00AC 31 00244     BRW        61$ ;
52 DD 00247 44$ : PUSHL R2      ; 0703
00000000' EF 9F 00249     PUSHAB P.ABS ;
00A1 31 0024F     BRW        61$ ;
52 DD 00252 45$ : PUSHL R2      ; 0704
00000000' EF 9F 00254     PUSHAB P.ABT ;
0096 31 0025A     BRW        61$ ;
52 DD 0025D 46$ : PUSHL R2      ; 0705
00000000' EF 9F 0025F     PUSHAB P.ABU ;
0088 31 00265     BRW        61$ ;
52 DD 00268 47$ : PUSHL R2      ; 0706
00000000' EF 9F 0026A     PUSHAB P.ABV ;
0080 31 00270     BRW        61$ ;
52 DD 00273 48$ : PUSHL R2      ; 0707
00000000' EF 9F 00275     PUSHAB P.ABW ;
76 11 0027B     BRB        61$ ;
52 DD 0027D 49$ : PUSHL R2      ; 0708
00000000' EF 9F 0027F     PUSHAB P.ABX ;
6C 11 00285     BRB        61$ ;
52 DD 00287 50$ : PUSHL R2      ; 0709
00000000' EF 9F 00289     PUSHAB P.ABY ;
62 11 0028F     BRB        61$ ;
52 DD 00291 51$ : PUSHL R2      ; 0710
00000000' EF 9F 00293     PUSHAB P.ABZ ;

```

```

58 11 00299 BRB 61$ ;
52 DD 0029B 52$: PUSHL R2 ; 0711
00000000' EF 9F 0029D PUSHAB P.ACA ;
4E 11 002A3 BRB 61$ ;
52 DD 002A5 53$: PUSHL R2 ; 0712
00000000' EF 9F 002A7 PUSHAB P.ACB ;
44 11 002AD BRB 61$ ;
52 DD 002AF 54$: PUSHL R2 ; 0713
00000000' EF 9F 002B1 PUSHAB P.ACC ;
3A 11 002B7 BRB 61$ ;
52 DD 002B9 55$: PUSHL R2 ; 0714
00000000' EF 9F 002BB PUSHAB P.ACD ;
30 11 002C1 BRB 61$ ;
52 DD 002C3 56$: PUSHL R2 ; 0715
00000000' EF 9F 002C5 PUSHAB P.ACE ;
26 11 002CB BRB 61$ ;
52 DD 002CD 57$: PUSHL R2 ; 0716
00000000' EF 9F 002CF PUSHAB P.ACF ;
1C 11 002D5 BRB 61$ ;
52 DD 002D7 58$: PUSHL R2 ; 0717
00000000' EF 9F 002D9 PUSHAB P.ACG ;
12 11 002DF BRB 61$ ;
52 DD 002E1 59$: PUSHL R2 ; 0718
00000000' EF 9F 002E3 PUSHAB P.ACH ;
08 11 002E9 BRB 61$ ;
52 DD 002EB 60$: PUSHL R2 ; 0719
00000000' EF 9F 002ED PUSHAB P.ACI ;
01 DD 002F3 61$: PUSHL #1 ;
1A DD 002F5 PUSHL #26 ;
63 04 FB 002F7 CALLS #4, (R3) ;
04 002FA RET ; 0696
50 DD 002FB 62$: PUSHL R0 ; 0729
52 DD 002FD PUSHL R2 ;
00000000' EF 9F 002FF PUSHAB P.ACK ;
01 DD 00305 PUSHL #1 ;
1A DD 00307 PUSHL #26 ;
63 05 FB 00309 CALLS #5, (R3) ;
04 0030C RET ; 0731

```

; Routine Size: 781 bytes, Routine Base: CODE + 0537

```
; 0732 1 END      ! End of MENTURING module
```

0733 0 ELUDOM

: PSECT SUMMARY

Name	Bytes	Attributes
DATA	2075	NOVEC,NOWRT, RD ,NOEXE, SHR, LCL, REL, CON,NOPIC,ALIGN(2)
CODE	2116	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
WORK	1	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Symbol	Type	Defined	Referenced	...
--------	------	---------	------------	-----

\$ASCIC	Unbound		629	635	641								
Macro	Lib02	235	277	422	430	435	470	646	647	648	649		
	650	651	652	653	654	655	656	657	658	659			
	660	661	662	663	664	665	669	677	678	679			
	680	681	682	683	684	685	686	690	698	699			
	700	701	702	703	704	705	706	707	708	709			
	710	711	712	713	714	715	716	717	718	719			
	723	728											
\$CRD_LITERALS	Macro	Lib03	76										
\$CRD_PRINT	Unbound		629	635	641								
Macro	Lib03	235	277	421	429	433	470	646	647	648	649		
	650	651	652	653	654	655	656	657	658	659			
	660	661	662	663	664	665	669	677	678	679			
	680	681	682	683	684	685	686	690	698	699			
	700	701	702	703	704	705	706	707	708	709			
	710	711	712	713	714	715	716	717	718	719			
	723	728											
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	563	564	565	567	568	569	570	571	573	574			
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	660	661	662	663	664	665	669	677	678	679			
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	649	650	651	652	653	654	655	656	657	658			
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		705.	706.	707.
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		545.	551.	560.
		570.	571.	573.
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CRD\$GB_CURRENT_STATE_TABLE	External Lib03	210.	218.	226.
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		675.	696.	
CRD\$GL_CURRENT_TYPECODE	External Lib03	215.	223.	231.
CRD\$GL_HS_CURRENT_STATE	External Lib03	180=	228.	230=
CRD\$GL_MM_CURRENT_STATE	External Lib03	120=	212.	214=
CRD\$GL_PREVIOUS_STATE	External Lib03	212=	220=	228=
CRD\$GL_TQ_CURRENT_STATE	External Lib03	150=	220.	222=
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				442.
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Symbol	Type	Defined	Referenced	...
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CRD\$K_ADVANCE_DIAGNOSTIC	Literal	76		
CRD\$K_ADVANCE_GENERAL_COM	Literal	76		
CRD\$K_ADVANCE_STATE	Literal	76		
CRD\$K_ALLOCATION_ERROR	Literal	76		
CRD\$K_ASSIGN_PTABLE_PTRS	Literal	76		
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CRD\$K_EXIT_CRD	Literal	76		
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CRD\$K_HOOK_POINT	Literal	76		
CRD\$K_HS_INTERNAL_ERROR	Literal	76		
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CRD\$K_IDC_EVDLD	Literal	76									
CRD\$K_IDC_EVRAD_0	Literal	76									
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CRD\$K_LAST_FUNCTION	Literal	76									
CRD\$K_LAST_HOOK_POINT	Literal		76								
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CRD\$K_LESI_EVRMB_0	Literal	76									
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CRD\$K_LESI_LAST_DIAGNOSTIC	Literal		76								
CRD\$K_LEVEL_4_PASSED	Literal	76									
CRD\$K_LOAD_AUTOSIZER	Literal	76									
CRD\$K_LOAD_ERROR	Literal	76									
CRD\$K_LOAD_GENERAL_COM	Literal		76								
CRD\$K_LOAD_LOAD_COM	Literal	76									
CRD\$K_LOAD_SELECT_COM	Literal	76									
CRD\$K_LOAD_SET_EVENT_COM	Literal	76									
CRD\$K_LOAD_SET_FLAGS_COM	Literal	76									
CRD\$K_LOAD_START_COM	Literal	76									
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CRD\$K_PREPARATION_ERROR	Literal	76									
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		564	565	567	568	569	570	571	573	574	575
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CRD\$K_STATE_AUTOSIZER_SET_FLAGS	Literal		76								
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CRD\$K_STATE_DONE_GENERAL_COMS	Literal	76	
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CRD\$K_STATE_DUMMY_10	Literal	76	
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CRD\$K_STATE_DUMMY_2	Literal	76	
CRD\$K_STATE_DUMMY_3	Literal	76	
CRD\$K_STATE_DUMMY_4	Literal	76	
CRD\$K_STATE_DUMMY_6	Literal	76	
CRD\$K_STATE_DUMMY_7	Literal	76	
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CRD\$K_STATE_LOAD_ERROR	Literal	76	
CRD\$K_STATE_LOAD_GENERAL_COM	Literal	76	
CRD\$K_STATE_LOAD_LOAD_COM	Literal	76	
CRD\$K_STATE_LOAD_SELECT_COM	Literal	76	
CRD\$K_STATE_LOAD_SET_EVENT_COM	Literal	76	
CRD\$K_STATE_LOAD_SET_FLAGS_COM	Literal	76	
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CRD\$K_STATE_PREPARATION_ERROR	Literal	76	
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CRD\$K_UDA_1_EVRLA_0	Literal	76	
CRD\$K_UDA_1_EVRLA_1	Literal	76	
CRD\$K_UDA_1_LAST_DIAGNOSTIC	Literal	76	
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CRD\$K_UDA_2_EVDLC	Literal	76	
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CRD\$K_UDA_2_EVRLA_0	Literal	76	
CRD\$K_UDA_2_LAST_DIAGNOSTIC	Literal	76	
CRD\$K_UDA_3_EVDLB	Literal	76	
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CRD\$K_UDA_3_EVDLD	Literal	76	

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CRD\$K_UA_3_LAST_DIAGNOSTIC	Literal	76		
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		650ac	651ac 652ac 653ac 654ac 655ac 656ac 657ac 658ac 659ac	
		660ac	661ac 662ac 663ac 664ac 665ac 669ac 677ac 678ac 679ac	
		680ac	681ac 682ac 683ac 684ac 685ac 686ac 690ac 698ac 699ac	
		700ac	701ac 702ac 703ac 704ac 705ac 706ac 707ac 708ac 709ac	
		710ac	711ac 712ac 713ac 714ac 715ac 716ac 717ac 718ac 719ac	
		723ac	729ac	
CRD\$PRINT_TYPECODE_NAME	ExtRout Lib03	432c		
DO_NOTHING	Local	325	472= 482. 486.	
DS\$BREAK	ExtRout	418	418c 496e 496c 497e 497c 498e 498c 499e 499c 500e	
		500c	501e 501c 502e 502c 503e 503c 504e 504c 505e	
		505c	506e 506c 507e 507c 533e 533c 534e 534c 535e	
		535c	536e 536c 537e 537c 560e 560c 562e 562c 563e	
		563c	564e 564c 565e 565c 567e 567c 568e 568c 569e	
		569c	570e 570c 571e 571c 573e 573c 574e 574c 575e	
		575c	576e 576c 577e 577c 578e 578c	
DS\$K_PRINTB	Literal	235		
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DS\$K_PRINTF	Literal	235	235	
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Symbol Type Defined Referenced ...

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DS\$K_PRINTI	Literal	235
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DS\$K_PRINTX	Literal	235		
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ZZ-ENSAB-2.0 MENS\$Print_Action_Routine Routine K 4
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame K4 Sequence 1697
 V01.2 MENS\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 52 (24)

Symbol Type Defined Referenced ...

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      Literal      723
      Literal      729
DSS$K_TYPE_ABORT_PROGRAM  Literal      235

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ZZ-ENSAB-2.0 MENS\$Print_Action_Routine Routine M 4
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame M4
 V01.2 MENS\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 54 (24)

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Symbol Type Defined Referenced ...

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DS\$K TYPE COMMAND ERR	Literal	235	
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_COMMAND_OUT	Literal	235		
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DS\$K_TYPE_CRD_AUTOTEST	Literal	235	235		
Literal	277	277			
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DS\$K_TYPE_DS_PROMPT	Literal	235
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_DS_START		Literal	235
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRDEV	Literal	235	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRHARD	Literal	235	
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DS\$K_TYPE_ERROR_BODY	Literal	235	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERROR_END	Literal	235	
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L i t e r a l	665
L i t e r a l	669
L i t e r a l	677
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L i t e r a l	680
L i t e r a l	681
L i t e r a l	682
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L i t e r a l	686
L i t e r a l	690
L i t e r a l	698
L i t e r a l	699
L i t e r a l	700
L i t e r a l	701
L i t e r a l	702
L i t e r a l	703
L i t e r a l	704
L i t e r a l	705
L i t e r a l	706
L i t e r a l	707
L i t e r a l	708
L i t e r a l	709
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L i t e r a l	711
L i t e r a l	712
L i t e r a l	713
L i t e r a l	714
L i t e r a l	715
L i t e r a l	716
L i t e r a l	717
L i t e r a l	718
L i t e r a l	719
L i t e r a l	723
L i t e r a l	729
DS\$K_TYPE_ERRPREP	
L i t e r a l	277
L i t e r a l	423
L i t e r a l	431
L i t e r a l	442

Symbol	Type	Defined	Referenced	...
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L i t e r a l	470
L i t e r a l	646
L i t e r a l	647
L i t e r a l	648
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L i t e r a l	651
L i t e r a l	652
L i t e r a l	653
L i t e r a l	654
L i t e r a l	655
L i t e r a l	656
L i t e r a l	657
L i t e r a l	658
L i t e r a l	659
L i t e r a l	660
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L i t e r a l	662
L i t e r a l	663
L i t e r a l	664
L i t e r a l	665
L i t e r a l	669
L i t e r a l	677
L i t e r a l	678
L i t e r a l	679
L i t e r a l	680
L i t e r a l	681
L i t e r a l	682
L i t e r a l	683
L i t e r a l	684
L i t e r a l	685
L i t e r a l	686
L i t e r a l	690
L i t e r a l	698
L i t e r a l	699
L i t e r a l	700
L i t e r a l	701
L i t e r a l	702
L i t e r a l	703
L i t e r a l	704
L i t e r a l	705
L i t e r a l	706
L i t e r a l	707
L i t e r a l	708
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L i t e r a l	710
L i t e r a l	711
L i t e r a l	712
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L i t e r a l	717

Symbol Type Defined Referenced ...

Literal	718		
Literal	719		
Literal	723		
Literal	729		
DS\$K_TYPE_ERRSOFT	Literal	235	
Literal	277		
Literal	423		
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_ERRSUP	Literal	235	
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Symbol Type Defined Referenced ...

L i t e r a l	700		
L i t e r a l	701		
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L i t e r a l	717		
L i t e r a l	718		
L i t e r a l	719		
L i t e r a l	723		
L i t e r a l	729		
DS\$K_TYPE_ERRSYS	Literal	235	
L i t e r a l	277		
L i t e r a l	423		
L i t e r a l	431		
L i t e r a l	442		
L i t e r a l	470		
L i t e r a l	646		
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Symbol Type Defined Referenced ...

Literal	681		
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DS\$K_TYPE_ERR_HALT	Literal	235	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_EXCEPTION	Literal	235	
Literal	277		
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Symbol	Type	Defined	Referenced ...
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Literal		729	
DS\$K_TYPE_EXCEPTION_HEAD	Literal		235
Literal		277	
Literal		423	
Literal		431	

ZZ-ENSAB-2.0 MENS\$Print_Action_Routine Routine

MENTURING *** MENTURING Module

19-Sep-1985 17:25:17 VAX-11

Bliss-32 V4.1-746

Fiche 9 Frame F6

Sequence 1718

V01.2 MEN\$Print_Action_Routine Routine

3-Jan-1985 17:02:40

[DS.CRD.V020]MENTURING.B32;1 (24)

Symbol	Type	Defined	Referenced	...
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L i t e r a l	442
L i t e r a l	470
L i t e r a l	646
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L i t e r a l	648
L i t e r a l	649
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L i t e r a l	652
L i t e r a l	653
L i t e r a l	654
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L i t e r a l	656
L i t e r a l	657
L i t e r a l	658
L i t e r a l	659
L i t e r a l	660
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L i t e r a l	662
L i t e r a l	663
L i t e r a l	664
L i t e r a l	665
L i t e r a l	669
L i t e r a l	677
L i t e r a l	678
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L i t e r a l	680
L i t e r a l	681
L i t e r a l	682
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L i t e r a l	684
L i t e r a l	685
L i t e r a l	686
L i t e r a l	690
L i t e r a l	698
L i t e r a l	699
L i t e r a l	700
L i t e r a l	701
L i t e r a l	702
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L i t e r a l	704
L i t e r a l	705
L i t e r a l	706
L i t e r a l	707
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L i t e r a l	710
L i t e r a l	711
L i t e r a l	712
L i t e r a l	713
L i t e r a l	714
L i t e r a l	715
L i t e r a l	716

ZZ-ENSAB-2.0 MEN\$Print_Action_Routine Routine G 6
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame G6
 V01.2 MEN\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 (24) Page 74

Sequence 1719

Symbol Type Defined Referenced ...

	Literal	717		
	Literal	718		
	Literal	719		
	Literal	723		
	Literal	729		
DS\$K	TYPE_FIRST_PASS	Literal	235	
	Literal	277		
	Literal	423		
	Literal	431		
	Literal	442		
	Literal	470		
	Literal	646		
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Symbol Type Defined Referenced ...

Literal	708		
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Literal	729		
DS\$K TYPE GENERAL	Literal	235	
Literal	277		
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Literal	690		
Literal	698		

ZZ-ENSAB-2.0 MENS\$Print_Action_Routine Routine I 6
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 19-Sep-1985 Fiche 9 Frame 16
 V01.2 MENS\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 76
 (24)

Sequence 1721

Symbol Type Defined Referenced ...

Literal	699		
Literal	700		
Literal	701		
Literal	702		
Literal	703		
Literal	704		
Literal	705		
Literal	706		
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DSSK	TYPE_GENERAL_ERROR	Literal	235
Literal	277		
Literal	423		
Literal	431		
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Symbol Type Defined Referenced ...

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L i t e r a l	690		
L i t e r a l	698		
L i t e r a l	699		
L i t e r a l	700		
L i t e r a l	701		
L i t e r a l	702		
L i t e r a l	703		
L i t e r a l	704		
L i t e r a l	705		
L i t e r a l	706		
L i t e r a l	707		
L i t e r a l	708		
L i t e r a l	709		
L i t e r a l	710		
L i t e r a l	711		
L i t e r a l	712		
L i t e r a l	713		
L i t e r a l	714		
L i t e r a l	715		
L i t e r a l	716		
L i t e r a l	717		
L i t e r a l	718		
L i t e r a l	719		
L i t e r a l	723		
L i t e r a l	729		
DS\$K_TYPE_NO_TESTS	Literal	235	
L i t e r a l	277		
L i t e r a l	423		
L i t e r a l	431		
L i t e r a l	442		
L i t e r a l	470		
L i t e r a l	646		
L i t e r a l	647		
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L i t e r a l	660		

ZZ-ENSAB-2.0 MENS\$Print_Action_Routine Routine K 6
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame K6
 V01.2 MENS\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 78 (24)

Sequence 1723

Symbol Type Defined Referenced ...

Literal	661		
Literal	662		
Literal	663		
Literal	664		
Literal	665		
Literal	669		
Literal	677		
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Literal	729		
DS\$K_TYPE_PARAM_ERROR	Literal	235	
Literal	277		
Literal	423		
Literal	431		
Literal	442		
Literal	470		
Literal	646		
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Literal	649		
Literal	650		
Literal	651		

ZZ-ENSAB-2.0 MEN\$Print_Action_Routine Routine L 6
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame L6
 V01.2 MEN\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 [DS.CRD.V020]MENTURING.B32;1 Page 79 (24)

Sequence 1724

Symbol Type Defined Referenced ...

Literal	652		
Literal	653		
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Literal	719		
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Literal	729		
DS\$K_TYPE_PROGRAM_END	Literal	235	
Literal	277		
Literal	423		

Symbol Type Defined Referenced ...

 Literal 431
 Literal 442
 Literal 470
 Literal 646
 Literal 647
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Symbol Type Defined Referenced ...

Literal	716		
Literal	717		
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Literal	719		
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DS\$K_TYPE_PROGRAM_INFO	Literal	235	
Literal	277		
Literal	423		
Literal	431		
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Symbol Type Defined Referenced ...

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DS\$K TYPE PROGRAM START	Literal	235	
Literal	277		
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_QIO_INVADP	Literal	235		
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Type Defined Referenced ...

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DSSK_TYPE_Q10_MODRIVER	Literal	235	
Literal	277		
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_QIO_WRONGVER	Literal	235	
Literal	277		
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_SCRIPT_ECHO	Literal		235	
Literal		277		

Symbol Type Defined Referenced ...

Literal	423
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Symbol Type Defined Referenced ...

Symbol	Type	Defined	Referenced
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DS\$K_TYPE_SCRIPT_PNF	Literal	235	
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Symbol Type Defined Referenced ...

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DS\$K_TYPE_SCRIPT_PROMPT	Literal	235	
Literal	277		
Literal	423		
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Symbol Type Defined Referenced ...

Literal	690		
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DS\$K	TYPE SCRIPT SKIP	Literal	235
Literal	277		
Literal	423		
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Literal	669		
Literal	677		

ZZ-ENSAB-2.0 MEN\$Print_Action_Routine Routine K 7
 MENTURING *** MENTURING Module 19-Sep-1985 17:25:17 VAX-11 Bliss-32 V4.1-746 Fiche 9 Frame K7
 V01.2 MEN\$Print_Action_Routine Routine 3-Jan-1985 17:02:40 (DS.CRD.V020)MENTURING.B32;1 Page 91 (24)

Sequence 1736

Symbol Type Defined Referenced ...

Literal	678		
Literal	679		
Literal	680		
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Literal	729		
DS\$K_TYPE_SEQUENCE_ERROR	Literal	235	
Literal	277		
Literal	423		
Literal	431		
Literal	442		
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Symbol	Type	Defined	Referenced	...
Literal		659		
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DS\$K	TYPE_START_ERR	Literal	235	
Literal		277		
Literal		423		
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L i t e r a l	650
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L i t e r a l	664
L i t e r a l	665
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L i t e r a l	677
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L i t e r a l	680
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L i t e r a l	682
L i t e r a l	683
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L i t e r a l	685
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L i t e r a l	690
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L i t e r a l	719
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L i t e r a l	729

DS\$K_TYPE_START_LIST Literal 235

Symbol Type Defined Referenced ...

L i t e r a l	277
L i t e r a l	423
L i t e r a l	431
L i t e r a l	442
L i t e r a l	470
L i t e r a l	646
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L i t e r a l	677
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Symbol	Type	Defined	Referenced	...
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DS\$K_TYPE_SUMMARY	Literal	235		
Literal		277		
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Symbol	Type	Defined	Referenced ...
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Literal		708	
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Literal		711	
Literal		712	
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Literal		714	
Literal		715	
Literal		716	
Literal		717	
Literal		718	
Literal		719	
Literal		723	
Literal		729	
DS\$K_TYPE_USER_PROMPT	Literal	235	
Literal		277	
Literal		423	
Literal		431	
Literal		442	
Literal		470	
Literal		646	
Literal		647	
Literal		648	
Literal		649	
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Literal		679	
Literal		680	
Literal		681	
Literal		682	
Literal		683	
Literal		684	
Literal		685	

Symbol	Type	Defined	Referenced	...
Literal		686		
Literal		690		
Literal		698		
Literal		699		
Literal		700		
Literal		701		
Literal		702		
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Literal		712		
Literal		713		
Literal		714		
Literal		715		
Literal		716		
Literal		717		
Literal		718		
Literal		719		
Literal		723		
Literal		729		
DSASAL_APTMAIL	Bind	75	75	
DSASGL_APTCOM	Bind	75		
DSASGL_DEVLEN	Bind	75		
DSASGL_DEVNAM	Bind	75		
DSASGL_ERRNO	Bind	75		
DSASGL_EVENT	Bind	75		
DSASGL_FLAGS	Bind	75	442	
DSASGL_MSGPTR	Bind	75		
DSASGL_MSGTYP	Bind	75		
DSASGL_PASSES	Bind	75		
DSASGL_PASSNO	Bind	75		
DSASGL_SECTNO	Bind	75		
DSASGL_SID	Bind	75		
DSASGL_SUBTNO	Bind	75		
DSASGL_TESTNO	Bind	75		
DSASGL_UNITS	Bind	75		
ENDING_VALUE	Local	326	447=	467.
GET1ST	Macro	Lib04	76	235
			277	423
			431	442
			470	646
			647	648
		649	650	651
		652	653	654
		655	656	657
		658	659	660
		661	662	663
		664	665	666
		667	668	669
		670	671	672
		673	674	675
		676	677	678
		679	680	681
		682	683	684
		685	686	687
		688	689	690
		691	692	693
		694	695	696
		697	698	699
		700	701	702
		703	704	705
		706	707	708
		709	710	711
		712	713	714
		715	716	717
		718	719	720
		721	722	723
		724	725	726
		727	728	729
GET2ND	Unbound	76	235	277
		423	431	442
		470	646	647
		648	649	650
		651	652	653
		654	655	656
		657	658	659
		660	661	662
		663	664	665
		666	667	668
		669	670	671
		672	673	674
		675	676	677
		678	679	680
		681	682	683
		684	685	686
		687	688	689
		690	691	692
		693	694	695
		696	697	698
		699	700	701
		702	703	704
		705	706	707
		708	709	710
		711	712	713
		714	715	716
		717	718	719
		720	721	722
		723	724	725
		726	727	728
		729	730	731

Symbol	Type	Defined	Referenced	...
679	680	681	682	683
699	700	701	702	703
709	710	711	712	713
719	723	729		
HSS\$ADVANCE_DIAGNOSTIC	ExtRout	Lib03	562c	
HSS\$ADVANCE_GENERAL_COM	ExtRout	Lib03	564c	
HSS\$CHANGE_TABLE	ExtRout	Lib03	573c	
HSS\$DIAGNOSTIC_ERROR	ExtRout	Lib03	576c	
HSS\$DONE_GENERAL_COMS	ExtRout	Lib03	565c	
HSS\$INIT_HS	ExtRout	Lib03	560c	
HSS\$INTERNAL_ERROR	ExtRout	Lib03	578c	
HSS\$K_ACTION_ADVANCE_DIAGNOSTIC	Literal	76	562	702
HSS\$K_ACTION_ADVANCE_GENERAL_COM	Literal	76	564	704
HSS\$K_ACTION_ADVANCE_STATE	Literal	76	454	581
HSS\$K_ACTION_CHANGE_TABLE	Literal	76	573	714
HSS\$K_ACTION_DIAGNOSTIC_ERROR	Literal	76	576	717
HSS\$K_ACTION_DONE_GENERAL_COMS	Literal	76	565	705
HSS\$K_ACTION_DO_NOTHING	Literal	76	479	580
HSS\$K_ACTION_DUMMY_3	Literal	76	582	700
HSS\$K_ACTION_DUMMY_4	Literal	76	583	706
HSS\$K_ACTION_DUMMY_5	Literal	76	584	712
HSS\$K_ACTION_DUMMY_6	Literal	76	585	713
HSS\$K_ACTION_INIT_HS	Literal	76	560	701
HSS\$K_ACTION_INTERNAL_ERROR	Literal	76	578	719
HSS\$K_ACTION_LAST_ACTION	Literal	76	558	696
HSS\$K_ACTION_LOAD_ERROR	Literal	76	574	715
HSS\$K_ACTION_LOAD_GENERAL_COM	Literal	76	563	703
HSS\$K_ACTION_LOAD_LOAD_COM	Literal	76	567	707
HSS\$K_ACTION_LOAD_SELECT_COM	Literal	76	570	710
HSS\$K_ACTION_LOAD_SET_EVENT_COM	Literal	76	569	709
HSS\$K_ACTION_LOAD_SET_FLAGS_COM	Literal	76	568	708
HSS\$K_ACTION_LOAD_START_COM	Literal	76	571	711
HSS\$K_ACTION_PREPARATION_ERROR	Literal	76	577	718
HSS\$K_ACTION_START_ERROR	Literal	76	575	716
HSS\$K_STATE_ADVANCE_DIAGNOSTIC	Literal	76		
HSS\$K_STATE_ADVANCE_GENERAL_COM	Literal	76		
HSS\$K_STATE_CHANGE_TABLE	Literal	76		
HSS\$K_STATE_DIAGNOSTIC_ERROR	Literal	76		
HSS\$K_STATE_DIAGNOSTIC_RUNNING	Literal	76		
HSS\$K_STATE_DONE_GENERAL_COMS	Literal	76		
HSS\$K_STATE_DUMMY_1	Literal	76		
HSS\$K_STATE_DUMMY_2	Literal	76		
HSS\$K_STATE_DUMMY_3	Literal	76		
HSS\$K_STATE_DUMMY_4	Literal	76		
HSS\$K_STATE_DUMMY_6	Literal	76		
HSS\$K_STATE_INIT_HS	Literal	76	180	
HSS\$K_STATE_INTERNAL_ERROR	Literal	76		
HSS\$K_STATE_LAST_STATE	Literal	76		
HSS\$K_STATE_LOAD_ERROR	Literal	76		
HSS\$K_STATE_LOAD_GENERAL_COM	Literal	76		
HSS\$K_STATE_LOAD_LOAD_COM	Literal	76		
HSS\$K_STATE_LOAD_SELECT_COM	Literal	76		
HSS\$K_STATE_LOAD_SET_EVENT_COM	Literal	76		

Symbol	Type	Defined	Referenced	...
HS\$K_STATE_LOAD_SET_FLAGS_COM	Literal	76		
HS\$K_STATE_LOAD_START_COM	Literal	76		
HS\$K_STATE_PREPARATION_ERROR	Literal	76		
HS\$K_STATE_START_ERROR	Literal	76		
HS\$LOAD_ERROR	ExtRout	Lib03 574c		
HS\$LOAD_GENERAL_COM	ExtRout	Lib03 563c		
HS\$LOAD_LOAD_COM	ExtRout	Lib03 567c		
HS\$LOAD_SELECT_COM	ExtRout	Lib03 570c		
HS\$LOAD_SET_EVENT_COM	ExtRout	Lib03 569c		
HS\$LOAD_SET_FLAGS_COM	ExtRout	Lib03 568c		
HS\$LOAD_START_COM	ExtRout	Lib03 571c		
HS\$PREPARATION_ERROR	ExtRout	Lib03 577c		
HS\$START_ERROR	ExtRout	Lib03 575c		
HS_ACTION_ROUTINE_CASE	Macro	395 560 562 563 564 565 567 568 569 570 571		
		573 574 575 576 577 578		
Macro		639 698 699 700 701 702 703 704 705 706 707		
		708 709 710 711 712 713 714 715 716 717		
		718 719		
LENGTH	Unbound	355 380 405		
RoutForm		282 442. 496. 497. 498. 499. 500. 501. 502. 503. 504.		
		505. 506. 507. 518. 524. 533. 534. 535. 536. 537.		
		545. 551. 560. 562. 563. 564. 565. 567. 568. 569.		
		570. 571. 573. 574. 575. 576. 577. 578. 587. 593.		
MENS\$GET_NEXT_ACTION_ROUTINE	Routine	239 67f 464c		
MENS\$GET_NEXT_STATE	Routine	185 65f 465c		
MENS\$INIT_HS_STATE_TABLE	GlobRout	155 Lib03e 63f		
MENS\$INIT_MM_STATE_TABLE	GlobRout	95 Lib03e 61f		
MENS\$INIT_TQ_STATE_TABLE	GlobRout	125 Lib03e 62f		
MENS\$K_HS_STATE_TABLE	Literal	76 226 272 694		
MENS\$K_MM_STATE_TABLE	Literal	76 210 264 449 474 493 643		
MENS\$K_TQ_STATE_TABLE	Literal	76 218 268 451 476 529 673		
MENS\$PRINT_ACTION_ROUTINE	GlobRout	602 Lib03e 71f 486c 491c		
MENS\$TURING_MACHINE	Unbound	355 380 405		
GlobRout		282 Lib03e 69f 496c 497c 498c 499c 500c 501c 502c 503c		
		504c 505c 506c 507c 533c 534c 535c 536c 537c 560c		
		562c 563c 564c 565c 567c 568c 569c 570c 571c 573c		
		574c 575c 576c 577c 578c		
MENS\$K_EXIT_AUTOSIZER_ERROR	Literal	76		
MENS\$K_EXIT_INTERNAL_ERROR	Literal	76		
MENS\$K_EXIT_LAST_REASON	Literal	76		
MENS\$K_EXIT_OPERATOR_ABORT	Literal	76		
MENS\$K_EXIT_OPERATOR_STOP	Literal	76		
MENS\$K_EXIT_SUP_FILE_LOAD_ERR	Literal	76		
MENS\$K_EXIT_SUP_FILE_NOT_FOUND	Literal	76		
MM\$AUTOSIZER_ERROR	ExtRout	Lib03 507c		
MM\$BUILD_DDBS	ExtRout	Lib03 500c		
MM\$BUILD_HSTS	ExtRout	Lib03 501c		
MM\$CHANGE_TABLE	ExtRout	Lib03 504c		
MM\$DONE_INITS	ExtRout	Lib03 502c		
MM\$INTERNAL_ERROR	ExtRout	Lib03 506c		
MM\$K_ACTION_ADVANCE_STATE	Literal	76 450 510 650		
MM\$K_ACTION_AUTOSIZER_ERROR	Literal	76 507 665		
MM\$K_ACTION_BUILD_DDBS	Literal	76 500 656		

Symbol	Type	Defined	Referenced	...
MMSK_ACTION_BUILD_HSTS	Literal	76 501	657	
MMSK_ACTION_CHANGE_TABLE	Literal	76 504	662	
MMSK_ACTION_DONE_INITS	Literal	76 502	659	
MMSK_ACTION_DO_NOTHING	Literal	76 475	509	646
MMSK_ACTION_DUMMY_3	Literal	76 511	647	
MMSK_ACTION_DUMMY_4	Literal	76 512	648	
MMSK_ACTION_DUMMY_5	Literal	76 513	649	
MMSK_ACTION_DUMMY_6	Literal	76 514	655	
MMSK_ACTION_DUMMY_7	Literal	76 515	658	
MMSK_ACTION_DUMMY_8	Literal	76 516	660	
MMSK_ACTION_INTERNAL_ERROR	Literal	76 506	664	
MMSK_ACTION_LAST_ACTION	Literal	76 494	644	
MMSK_ACTION_LOAD_AUTOSIZER	Literal	76 497	652	
MMSK_ACTION_MENU_PROMPT	Literal	76 505	663	
MMSK_ACTION_PRINT_MENU	Literal	76 503	661	
MMSK_ACTION_PRINT_MENU_HEADING	Literal	76 496	651	
MMSK_ACTION_SET_FLAGS_AUTOSIZER	Literal	76 498	653	
MMSK_ACTION_START_AUTOSIZER	Literal	76 499	654	
MMSK_STATE_AUTOSIZER_ERROR	Literal	76		
MMSK_STATE_AUTOSIZER_RUNNING	Literal	76		
MMSK_STATE_BUILD_DDBS	Literal	76		
MMSK_STATE_BUILD_HSTS	Literal	76		
MMSK_STATE_CHANGE_TABLE	Literal	76		
MMSK_STATE_DONE_INITS	Literal	76		
MMSK_STATE_DUMMY_1	Literal	76		
MMSK_STATE_DUMMY_2	Literal	76		
MMSK_STATE_DUMMY_3	Literal	76		
MMSK_STATE_DUMMY_5	Literal	76		
MMSK_STATE_DUMMY_7	Literal	76		
MMSK_STATE_DUMMY_8	Literal	76		
MMSK_STATE_INTERNAL_ERROR	Literal	76		
MMSK_STATE_LAST_STATE	Literal	76		
MMSK_STATE_LOAD_AUTOSIZER	Literal	76		
MMSK_STATE_MENU_PROMPT	Literal	76		
MMSK_STATE_PRINT_MENU	Literal	76		
MMSK_STATE_PRINT_MENU_HEADING	Literal	76		
MMSK_STATE_SET_FLAGS_AUTOSIZER	Literal	76		
MMSK_STATE_START	Literal	76 120		
MMSK_STATE_START_AUTOSIZER	Literal	76		
MMSLOAD_AUTOSIZER	ExtRout Lib03	497c		
MMSMENU_PROMPT	ExtRout Lib03	505c		
MMSPRINT_MENU	ExtRout Lib03	503c		
MMSPRINT_MENU_HEADING	ExtRout Lib03	496c		
MMSSET_FLAGS_AUTOSIZER	ExtRout Lib03	498c		
MMSSTART_AUTOSIZER	ExtRout Lib03	499c		
MM_ACTION_ROUTINE_CASE	Macro	345 496	497 498 499 500 501 502 503 504 505	
Macro		506 507		
Macro		627 646 647 648 649 650 651 652 653 654 655		
Macro		656 657 658 659 660 661 662 663 664 665		
MODNAM	Macro Lib01	92		
NUL2ND	Macro Lib04	76 235 277 423 431 442 470 646 647 648		
		649 650 651 652 653 654 655 656 657 658		
		659 660 661 662 663 664 665 669 677 678		

Symbol	Type Defined Referenced ...										
	679	680	681	682	683	684	685	686	690	698	
	699	700	701	702	703	704	705	706	707	708	
	709	710	711	712	713	714	715	716	717	718	
	719	723	729								
RECURSION	Unbound		356	362	381	387	406	412			
Own	329	329=	423.	425=	425.	484=	484.	496=	496.	497=	497.
	498=	498.	499=	499.	500=	500.	501=	501.	502=	502.	
	503=	503.	504=	504.	505=	505.	506=	506.	507=	507.	
	533=	533.	534=	534.	535=	535.	536=	536.	537=	537.	
	560=	560.	562=	562.	563=	563.	564=	564.	565=	565.	
	567=	567.	568=	568.	569=	569.	570=	570.	571=	571.	
	573=	573.	574=	574.	575=	575.	576=	576.	577=	577.	
	578=	578.									
STATUS	Unbound		349	351	353	355	358	364	374	376	378
	383	389	399	401	403	405	408	414			380
Local	496	496=	496.								
Local	497	497=	497.								
Local	498	498=	498.								
Local	499	499=	499.								
Local	500	500=	500.								
Local	501	501=	501.								
Local	502	502=	502.								
Local	503	503=	503.								
Local	504	504=	504.								
Local	505	505=	505.								
Local	506	506=	506.								
Local	507	507=	507.								
Local	533	533=	533.								
Local	534	534=	534.								
Local	535	535=	535.								
Local	536	536=	536.								
Local	537	537=	537.								
Local	560	560=	560.								
Local	562	562=	562.								
Local	563	563=	563.								
Local	564	564=	564.								
Local	565	565=	565.								
Local	567	567=	567.								
Local	568	568=	568.								
Local	569	569=	569.								
Local	570	570=	570.								
Local	571	571=	571.								
Local	573	573=	573.								
Local	574	574=	574.								
Local	575	575=	575.								
Local	576	576=	576.								
Local	577	577=	577.								
Local	578	578=	578.								
TQ\$CHANGE_TABLE	ExtRout	Lib03	535c								
TQ\$DONE_TEST_QUEUE	ExtRout	Lib03	536c								
TQ\$GET_DDB	ExtRout	Lib03	534c								
TQ\$INIT_TQ	ExtRout	Lib03	533c								
TQ\$INTERNAL_ERROR	ExtRout	Lib03	537c								

Symbol	Type	Defined	Referenced ...
TQ\$K_ACTION_ADVANCE STATE	Literal	76 452	540 678
TQ\$K_ACTION_CHANGE TABLE	Literal	76 535	682
TQ\$K_ACTION_DONE TEST QUEUE	Literal	76 76 536	684
TQ\$K_ACTION_DO NOTHING	Literal	76 477	539 677
TQ\$K_ACTION_DUMMY_3	Literal	76 541	679
TQ\$K_ACTION_DUMMY_4	Literal	76 542	683
TQ\$K_ACTION_DUMMY_5	Literal	76 543	685
TQ\$K_ACTION_GET DDB	Literal	76 534	681
TQ\$K_ACTION_INIT TQ	Literal	76 533	680
TQ\$K_ACTION_INTERNAL ERROR	Literal	76 537	686
TQ\$K_ACTION_LAST ACTION	Literal	76 531	675
TQ\$K_STATE_CHANGE TABLE	Literal	76	
TQ\$K_STATE_DONE TEST QUEUE	Literal	76	
TQ\$K_STATE_DUMMY_1	Literal	76	
TQ\$K_STATE_DUMMY_2	Literal	76	
TQ\$K_STATE_DUMMY_3	Literal	76	
TQ\$K_STATE_DUMMY_4	Literal	76	
TQ\$K_STATE_DUMMY_5	Literal	76	
TQ\$K_STATE_GET DDB	Literal	76	
TQ\$K_STATE_INIT TQ	Literal	76 150	
TQ\$K_STATE_INTERNAL ERROR	Literal	76	
TQ\$K_STATE_LAST STATE	Literal	76	
TQ_ACTION_ROUTINE CASE	Macro	370 533	534 535 536 537
Macro		633 677 678 679 680 681 682 683 684 685 686	
TYPECODE	Unbound	355 380 405	
RoutForm		282 431 432 442 445 496 497 498 499 500 501	
		502 503 504 505 506 507 533 534 535 536	
		537 560 562 563 564 565 567 568 569 570	
		571 573 574 575 576 577 578	

CROSS REFERENCE MAP

Line #	Event	File ...
1	Source (start)	DISK\$DIAGPACK03:[DS.CRD.V020]MENTURING.B32;1
2	Module	MENTURING
48	Library #1	DISK\$DIAGPACK03:[DS.LIBRARIES]DS.L32;17
51	Library #2	DISK\$DIAGPACK03:[DS.LIBRARIES]DIAG.L32;30
54	Library #3	DISK\$DIAGPACK03:[DS.CRD.V020]CRD.L32;1
57	Library #4	SYS\$COMMON:[SYSLIB]LIB.L32;2
733	Eludom	MENTURING

```
; Size: 2116 code + 2076 data bytes
; Run Time: 02:27.4
; Elapsed Time: 02:38.9
; Lines/CPU Min: 298
; Lexemes/CPU-Min: 75708
; Memory Used: 1226 pages
; Compilation Complete
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